

附 属 資 料

事前調査団ミニッツ

スリ・ランカ側からの技術協力要請書

長期調査報告書（英文）

MINUTES OF DISCUSSIONS
BETWEEN
THE JAPANESE PRELIMINARY STUDY TEAM
AND
THE AUTHORITIES CONCERNED
OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
ON
THE JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT FOR IMPROVEMENT OF THE FACULTY OF DENTAL
SCIENCES, UNIVERSITY OF PERADENIYA

The Japanese Preliminary Study Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA"), and headed by Dr. Mitsuhiro Naemura, Director of the First Medical Cooperation Division, Medical Cooperation Department, JICA, visited Sri Lanka from January 5 to January 15, 1997, for the purpose of making a study on the request by the Government of Sri Lanka for Japanese Technical Cooperation concerning the Project for Improvement of the Faculty of Dental Sciences, University of Peradeniya (hereinafter referred to as "the Project").

During its stay in Sri Lanka, the Team and the relevant authorities of the Sri Lankan Government exchanged views and had a series of discussions on the matters specified in the document attached herewith.

Colombo, January 13, 1997

✓

hl

ky

12

W
H

苗村光廣

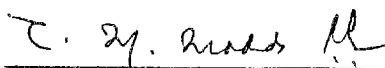
Dr. Mitsuhiro Naemura
Leader
Preliminary Study Team
Japan International
Cooperation Agency



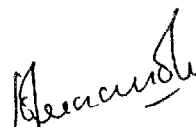
Mr. M.D.D. Pieris
Secretary
Ministry of Education & Higher
Education



Mr. Prof. S. Tilakaratna
Chairman
University Grants Commission



Prof. Madduma Bandara
Vice-Chancellor
University of Peradeniya



Dr. Dudley Dissanayake
Secretary
Ministry of Health, Highways &
Social Services



Mr. B.H. Passaperuma
Deputy Director
Department of External
Resources
Ministry of Finance & Planning



ATTACHED DOCUMENT

1. TITLE OF THE PROJECT

"The Project for Improvement of the Faculty of Dental Sciences, University of Peradeniya"

2. OVERALL GOAL

Enhancement of human resources development and improvement of technical and professional capabilities of the Faculty of Dental Sciences, University of Peradeniya which produce dental surgeons at university graduate level.

3. OBJECTIVE OF THE PROJECT

Provision of facilities under JICA technical cooperation scheme in order to ensure smooth implementation of the facilities (new faculty/ hospital building complex) extended to the Faculty of Dental Sciences, University of Peradeniya under the JICA Grant Aid scheme.

4. ACTIVITIES OF THE PROJECT

The activities of the Project in order to achieve the above mentioned objective are as follows:

- (1) Guidance for teaching methods for undergraduate dental education (7 Departments, including 17 Divisions),
- (2) Technology transfer for optimum utilization of the educational, laboratory and clinical facilities,
- (3) Technology transfer for community dental health, basic medical sciences and clinical specialties for undergraduate education, and

✓

hl

✓

2

16/4

(4) Guidance for ability development in teaching and research skills related to undergraduate education.

5. EXECUTING AGENCY

University of Peradeniya

6. SITE OF THE PROJECT

The project site will be located at the Faculty of Dental Sciences, University of Peradeniya.

7. DURATION OF THE PROJECT

The initial duration of the JICA Project-type Technical Cooperation is expected to be 5 years.

8. IMPLEMENTATION OF THE PROJECT

The Japanese Technical Cooperation under the Project will be implemented through the following three basic components:

- (1) Dispatch of Japanese experts,
- (2) Training of Sri Lankan personnel in Japan, and
- (3) Provision of equipment necessary for the Project.

9. MEASURES TO BE TAKEN BY THE SRI LANKAN SIDE

- (1) To establish "the Steering Committee" for the Project which consists of members listed below.
 - (a) Chairperson: Secretary or Senior Representative to the Ministry in charge of the higher education
 - (b) Chairman, University Grants Commission
 - (c) Vice Chancellor, University of Peradeniya

Handwritten initials

Handwritten mark resembling a bracket or '3'

Handwritten initials and marks

- (d) Dean, Faculty of Dental Sciences, University of Peradeniya
 - (e) Director-General or Senior Representative of Health Services, Ministry of Health, Highways and Social Services
 - (f) Director-General or Senior Representative, Department of External Resources
 - (g) Director-General or Senior Representative, Department of National Budget
 - (h) Director-General or Senior Representative, Department of National Planning
- (2) To provide sufficient local office staff and counterpart officials necessary for the smooth implementation of the project.
- (3) To provide necessary financial provisions to meet the recurrent expenditures such as transport cost, custom duties and taxes, cost incurred for installation, operation and maintenance of equipment and other necessary expenditures.
- (4) To make necessary arrangements to exempt or to meet the custom duties imposed on equipment provided by JICA.
- (5) To define the responsibilities entrusted with the following Government Agencies for the implementation of the project.
- (a) Faculty of Dental Sciences (FODS)
 - (b) University of Peradeniya (UOP)
 - (c) University Grants Commission (UGC)
 - (d) Ministry of Education and Higher Education (MEHE)
 - (e) Ministry of Health, Highways and Social Services (MHH&SS)
 - (f) Ministry of Finance & Planning (MOFP)
 - Department of External Resources
 - Department of National Budget
 - Department of National Planning

Handwritten marks: a checkmark and a signature.

Handwritten marks: a checkmark, the letter 'u', and a signature.

Handwritten mark: a bracket-like symbol.

10. SRI LANKAN ORGANIZATION RESPONSIBLE FOR THE IMPLEMENTATION OF THE PROJECT

- (1) Dean, Faculty of Dental Sciences will be the head of the Project.
- (2) Ministry of Education and Higher Education will be responsible for coordination and implementation of the Project.
- (3) The Steering committee will be responsible for establishing an effective collaboration and also coordination of activities among the related agencies.

11. JOINT COORDINATING COMMITTEE

(1) Composition

- (a) Chairperson: Secretary or Senior Representative to the Ministry in charge of the higher education
- (b) Members:
 - Sri Lankan Side:
 - Members of the Steering Committee mentioned in 9(1)
 - Japanese side:
 - Project Leader
 - Project Coordinator
 - Japanese experts
 - Resident representative, JICA Sri Lanka Office
 - Representatives of Embassy of Japan
 - Others:
 - Observers
 - Any other relevant officials mutually agreed upon as necessary

(2) Terms of Reference of the Committee

- (a) To formulate the annual plan of the Project.
- (b) To monitor the progress of the Project.
- (c) To evaluate the activities of the Project.
- (d) To discuss other matters relevant to the Project.


12. FUTURE SCHEDULE

(1) Long-term Study

A team of Japanese expert(s) will be dispatched for several weeks in second half of March 1997 for further discussions with the Sri Lankan counterpart in order to compile necessary additional data for the formulation of a detailed plan and thereby to complete a project design matrix.

(2) Dispatch of the Implementation Study Team

After the Long-term Study the Japanese side will send an Implementation Study Team to discuss and finalize the details of the project. The Record of Discussions (R/D) will be signed by the representatives of both sides, so that the technical cooperation can be initiated.



hl



3

② スリ・ランカ側からの技術協力要請書



දුරකථන අංක
தொலைபேசி இல.
Telephone Nos.

උප කුලපති
உப வேந்தர்
Vice-Chancellor } 08-88151

පාඨශාලා
அலுவலகம்
Office } 08-88301-5
(five lines)

පලමු කාර්යාල
பெயலகம்
Registrar } 08-88102

ප්‍රධාන කාර්යාල
தலைகாணி
Director } 08-88104

1942 - 1992

FIFTY YEARS OF UNIVERSITY EDUCATION

පේරාදෙණිය විශ්වවිද්‍යාලය, ශ්‍රී ලංකාව
பேராதனைப் பல்கலைக்கழகம், ஸ்ரீ லங்கா
UNIVERSITY OF PERADENIYA, SRI LANKA

අපේ යොමුව
எனது இல
Our Ref. }

ඔබේ යොමුව
உமது இல.
Your Ref. }

පේරාදෙණිය
பேராதனை
Peradeniya

දිනය
திகதி
Date }

Office of the Dean
Faculty of Dental Science,
University of Peradeniya

22nd November 1995

Dr K.Kanai,
2nd Secretary,
Embassy of Japan.
Gregories Road
Colombo 7

Dear Dr Kanai,

Request for Project Type Technical Cooperation

I refer to the above request which we have forwarded through official channels. I expect the Department of External Resources will shortly transmit the papers to the Japanese Embassy for appropriate action. In the meantime you would recall that I have already given you an advance copy of the request.

Having had the opportunity of discussing the proposal with Dr Yujiro Handa yesterday I am writing to clarify that the request we have made should be seen as a 'maximum request'.

While obviously hoping that adequate consideration would be given to the request as it stands, we entirely appreciate that it may be necessary to trim down the Technical cooperation program depending upon funding constraints.

Should that be necessary I am writing to say that we would be happy to adopt a flexible approach, and both limit and rationalize our requests on the basis of identified priorities.

Please do not hesitate to let us know if there is anything more we can do at this stage to ensure favourable consideration of our request.

Thanking you and with warm regards

Yours sincerely

Professor A.N.I. Ekanayaka

Dean
Faculty of Dental Sciences
University of Peradeniya
Sri Lanka.

දුරකථනය
දුරකථන අංකය
Telephone } 421251

විදුලි පණිවුඩ
දුරකථන
Telegrams } FORAID

වෙලදාය
දුරකථන
Telex } FORAID
Colombo
21232

වැස්ස
පෙරේ
Fax } 447633



මගේ අංකය
අංකය
My No. }

ඔබේ අංකය
අංකය
Your No. }

විදේශ සම්පත් දෙපාර්තමේන්තුව
මුදල්, ක්‍රම සංවිකල්ප, ජනවාර්ගික කටයුතු සහ
ජාතික උනන්දුවක දෙපාර්තමේන්තුව
බැංකු, මුදල්, සමාජ සේවා, ජාතික සමාජ සේවා සහ
ජාතික උනන්දුවක දෙපාර්තමේන්තුව
DEPARTMENT OF EXTERNAL RESOURCES
Ministry of Finance, Planning, Ethnic Affairs and
National Integration

මහලේකම් කොමිෂනරි (3 වැනි මහල)
කොමිෂනරි, (3 වැනි මහල)
The Secretariat, (3rd Floor)
නැ. අං. 277, කොළඹ 1.
P. O. Box 277, Colombo 1.

19.....

TA/GOJ/JICA/0-
29.11.95

Dr. Kaname Kanai,
Second Secretary,
(Economic Cooperation)
Embassy of Japan,
Colombo.

Dear Dr. Kanai,


JICA - PROJECT TYPE TECHNICAL COOPERATION FY 1996/97
IMPROVEMENT OF FACULTY OF DENTAL SCIENCE - UNIVERSITY OF PERADENIYA

I am glad to forward herewith a project proposal submitted by our Higher Educational authorities requesting for technical assistance for the above mentioned project for your kind and favourable consideration.

As you are aware, the Government of Japan has granted assistance to do the detailed design of the project followed by construction of facilities. It has been realized that combination of technical assistance with grant aid is essential in order to derive the maximum benefits of aid funded projects. In this context I included this project in the list recommended in 1994.

I shall be glad if you would kindly make all possible efforts to provide us a project type technical cooperation for the project for Improvement of Faculty of Dental Science.

With kind Regards,
Your sincerely,


(B.H. Pasupaperuma)
Deputy Director
for DG/BRD

- cc: 1. Mr. Y. Nakamura, - A copy of the above mentioned project proposal is at
Resident Representative, attached for your information,
JICA,
Colombo.
2. S/B. & H.B. - Ref. his endorsement on 07.11.95
3. Dean/Faculty of Dental Science/UOP - Ref. the letter dated 01.11.95

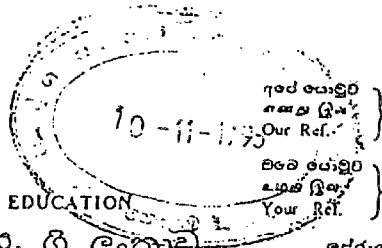
දුරකථන අංක
 தொலைபேசி இல.
 Telephone Nos.

උප කලාපී
 உப சாந்தர்
 Vice-Chancellor } 08-88151

කාන්ඩාලය
 கான்டியாலம்
 Office } 08-88301-5
 (five lines)

ලේඛනාධිකාරී
 செயலாளர்
 Registrar } 08-88102

මුද්‍රාධිකාරී
 கணக்காளர்
 Bursar } 08-88104



1942 - 1992

FIFTY YEARS OF UNIVERSITY EDUCATION

පේරාදෙණිය විශ්වවිද්‍යාලය, ශ්‍රී ලංකාව
 பெராதனைப் பல்கலைக்கழகம், ஸ்ரீ லங்கா
 UNIVERSITY OF PERADENIYA, SRI LANKA
 Office of the Dean,
 Faculty of Dental Sciences.
 1st November, 1995.

පේරාදෙණිය
 பெராதனை
 Peradeniya
 දිනය
 தேதி
 Date

Mrs. D.D.G.Kudaligama,
 Director/Dept. of External Resources,
 Ministry of Finance, Planning, Ethnic Affairs and
 National Integration,
 The Secretariat (3rd Floor),
 P.O.Box 277,
 Colombo 1.

Regan... Forward
10/11

C. Abeygunawardane
 Addl. Secretary,
 Ministry of Education & Higher Education,
 No. 18, Ward Place,
 Colombo 7.
 Vice-Chancellor
 University of Peradeniya
 Peradeniya.

H. M. Piya Sena
 H. M. PIYASENA
 onal Secretary / Academic
 ersity Grants Commission
 No. 20, Ward Place,
 COLOMBO - 07.

Through Vice Chancellor/University of Peradeniya.
 Secretary/Ministry of Education & Higher Education.
 for Secretary/University Grants Commission.

Dear Mrs. Kudaligama,

JAPANESE GRANT PROJECT FOR IMPROVEMENT OF DENTAL SCHOOL/DENTAL HOSPITAL
 OF THE FACULTY OF DENTAL SCIENCES, UNIVERSITY OF PERADENIYA

REQUEST FOR SUPPORTING PROJECT TYPE TECHNICAL COOPERATION

As you know the above Grant Aid project has now obtained Sri Lanka Government Cabinet approval.

Furthermore, with the completion of work on the Basic Design, it is expected that the exchange of notes between the two Governments will take place during the month of November, followed by the commencement of construction activities in mid 1996.

In this connection, the Japanese Authorities have been advising us on the need for a programme of Project Type Technical Cooperation, to ensure the efficient utilization, and sustainability of the new modern Dental School/Dental Hospital that is to be constructed with Japanese Grant Aid.

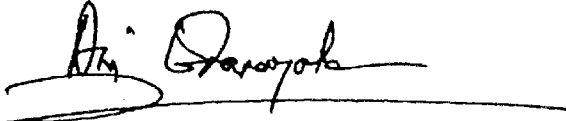
Contd/..2..

Accordingly, following detailed discussions between the University and the leader of the Japanese Basic Design Team, I am forwarding herewith our request for Project Type Technical Cooperation in the relevant format.

May I reiterate that this request for Project Type Technical Cooperation is directly connected to the Grant Aid Project which is to be implemented shortly. Consequently, we would greatly appreciate it if you would kindly give due priority to this request.

With kind regards.

Yours sincerely,



Professor A.N.I. Ekanayaka,
DEAN/DENTAL SCIENCES.

~~Dean~~
Faculty of Dental Sciences
University of Peradeniya
Sri Lanka.

INQUIRY ON REQUEST FOR PROJECT TYPE

TECHNICAL COOPERATION

(FURTHER TO PROJECT PROPOSAL ALREADY SUBMITTED FOR JAPANESE GRANT AID)

01. Name of the Project:

PROJECT FOR THE IMPROVEMENT OF TRAINING FACILITIES FOR
DENTAL SURGEONS AND DENTAL AUXILIARIES.
FACULTY OF DENTAL SCIENCES,
UNIVERSITY OF PERADENIYA,
PERADENIYA,
SRI LANKA.

This is a project proposal for Japanese Grant Aid which is currently under consideration by JICA (this request for technical cooperation is intended to support the original project proposal to reconstruct the Dental School/Dental Hospital of the Faculty of Dental Sciences, University of Peradeniya with Japanese Grant Aid).

02. Outline of implementing organization:

a. Supervising Ministry:

Ministry of Higher Education

b. Name:

University of Peradeniya under the authority of the Vice Chancellor, University of Peradeniya, Peradeniya, Sri Lanka.

c. Location:

Peradeniya , Sri Lanka.

d. Brief history and duties:

The University of Peradeniya is the oldest University in Sri Lanka and has been in existence for just over 50 years. It is an internationally recognized seat of Higher Education and contains 7 Faculties including the Faculty of Dental Sciences. The function and duties of the University are those which are traditionally performed by universities, and include undergraduate and postgraduate teaching, service, and research.

The inter relationship between teaching and service is particularly strong in the Faculty of Dental Sciences which is constituted as both Dental School/Dental Hospital for the training of dentists and for the treatment of patients. In this context it is important to emphasize that the Faculty of Dental Sciences is the only training institution for dental graduates in Sri Lanka.

e. Number of staff and outline of formation:

Please see annexures 1,2 & 3

Annexure 01. Organization Chart of University of Peradeniya (Administrative)

Annexure 02. Organization Chart of University of Peradeniya (Academic)

Annexure 03. Dental Faculty Staff

f. Budget (annual total budget and its breakdown. Especially, running cost of requested project should be mentioned)

This request for project proposal type technical cooperation is directly connected with the original project proposal for Japanese Grant Aid which is now under active consideration by JICA. The estimated cost of this project as contained in the project proposal already submitted is Rs. 361 million.

As regards the current budget for the normal functioning of the implementing organization (please see annexures 4,5,6;7).

03. Background of request (purpose and necessity)

This is primarily an Education Project but one with important implications for oral health in Sri Lanka.

Oral and dental diseases are amongst the commonest diseases known to man. Large numbers of people in all populations suffer from some type of oral/dental condition at some time or another in their life.

In Sri Lanka oral cancer is considered to be the most commonly occurring cancer. Moreover disfiguring conditions like cleft lip and cleft palate are responsible for severe disabilities. Commonly prevalent conditions like dental caries, periodontal disease, irregular teeth, and dental Fluorosis can impair the quality of life by causing pain and discomfort, and by their effect on facial appearance. Finally the economic impact of dental and oral diseases in terms of the cost of care and working days lost cannot be discounted.

In Sri Lanka dental surgeons occupy a strategic position in the battle against oral diseases. For about 40 years these personnel have been trained in a single institution - the dental school/hospital of the Faculty of Dental Sciences in the University of Peradeniya.

This institution - the only one of its kind - now badly needs upgrading. Many of the buildings that are in use today, were never intended for a University dental school. Consequently as at present the buildings are old and inadequate. Moreover much of the equipment is obsolete and in a state of disrepair. Both academic teaching and clinical training are frequently carried out in relatively primitive conditions. The whole institution has lagged behind in development. These conditions contrast with the dramatic scientific advances and new image of dentistry in the late 20th century, and are not conducive to the education of modern dentists and specialists in oral health.

This project is intended to remedy these shortcomings, offer a better education to students and a superior service to patients. It aims to entirely reconstruct the dental school/hospital of the Faculty, as a facility capable of producing modern dentists. It is hoped that dental surgeons who graduate from this institution will possess the necessary knowledge and skills, both preventive and curative, in keeping with modern styles, techniques and scientific advances in dentistry.

The new dental school/hospital will also be relocated in a new and better site adjacent to the existing Japanese built Peradeniya Teaching Hospital.

THE CURRENT REQUEST FOR TECHNICAL COOPERATION IS INTENDED TO SUPPORT THE ABOVE MAJOR PROJECT WHICH WILL BE IMPLEMENTED WITH JAPANESE GRANT AID. THE PROGRAMME OF TECHNICAL ASSISTANCE INCLUDING THE INVOLVEMENT OF JAPANESE EXPERTS IN CERTAIN DENTAL DISCIPLINES AND THE TRAINING OF CERTAIN CATEGORIES OF LOCAL STAFF IN JAPAN - WILL ENABLE THE FULL UTILIZATION OF THE NEW DENTAL SCHOOL/DENTAL HOSPITAL THAT IS TO BE BUILT WITH JAPANESE GRANT AID.

04. Expected output (Target of beneficiary and Goals of the project):

(1) Short-term goals:

To upgrade and modernise the training/service functions of the dental school/hospital of the Faculty of Dental Sciences by the Provision of suitable buildings and equipment, associated with a programme of technical assistance.

(ii) Medium-term goals:

Annual production of a sufficient number of well trained dental personnel for Sri Lanka. This in turn would improve the quality of dental care and promote the oral health of the nation, by adequately catering to Oral Health needs and demands.

The project will also have an impact on the quality of life in various ways. The production of well trained oral health personnel will help in the fight against oral cancer. A modern dental hospital will offer better facilities for the treatment of conditions such as cleft lip and cleft palate which cause severe disabilities. Finally by modernising the one and only institution for the training of dentists in Sri Lanka - the project will help to reduce the pain/misery associated with many other highly prevalent oral and dental disease which seriously impair the quality of life.

Oral health promotion entails the utilisation of optimum numbers of oral health personnel possessing the skills and competencies required, both preventive and curative, in the context of modern styles, techniques and scientific advances in dentistry. The project will contribute to the attainment of this objective by enabling the only existing faculty of dental sciences to train such personnel.

The accepted goal in the development of the health sector in Sri Lanka is that of the World Health Organization i.e. " Health for all by the year 2000".

This entails a combination of modern curative treatment and basic preventive and promotive oral health care.

The Proposed Project seeks to provide the necessary training principally for the professional manpower required for this task.

(iii) Benefits of the project:

Population that will benefit directly from the Project

The Faculty of Dental Sciences of the University of Peradeniya is the only institution in Sri Lanka to produce dental surgeons to service the approximately 17 million population. As such, it caters to the nation as a whole by providing dental surgeons for every provincial hospital and dental clinic throughout the island. Accordingly the impact and influence of this project will be national, not just regional and local. Therefore, the direct beneficiaries of this project would be the people of Sri Lanka who would receive a much improved oral health service than they receive at present.

Oral diseases are very common and it is widely recognised that they contribute to significant work loss with the associated economic implications for various public and private sector institution so affected. Consequently any project which aims to improve oral health may have indirect benefits in terms of better attendance and higher productivity in both the Public Sector and in business and industry. Indeed the indirect benefits both social, economic and psychological of improved community health are considerable. Other indirect benefits of a project of this nature will include employment opportunities to people in the region. Finally dentists produced in this institution will potentially play a significant role in training and mobilising the services of other health workers.

(iv) Area that will benefit from the Project:

The entire country will benefit from the project.

(v) Economic and Social Effects of the Project:

(1) Current Situation:

The present facilities at the Faculty of Dental Sciences are old and obsolete. The facilities necessary to train dental surgeons in many modern clinical procedures are not available. Such training and the subsequent utilization of dentists as at present is not conducive to the most efficient and cost effective utilization of such manpower. Moreover university education in Sri Lanka is extremely competitive and only the intellectual cream from the nation's schools are admitted for Medical and Dental training. Consequently it is important to provide such students with an education worthy of their intellectual and academic potential. Furthermore modern dental equipment, materials and styles of practice aim at maximising the speed and efficiency of a dentist. The social and economic cost of failing to modernise dental training and practice in Sri Lanka cannot be ignored.

(2) Expected effects of the project:

(a) It will provide a developing country (Sri Lanka) with one dental school/hospital with better facilities in order to produce the required number of dental surgeons for the country.

(b) It will be possible to train more competent, skillful, and professional dental surgeons for Sri Lanka.

(c) It will be possible to offer dental students a university training more in keeping with their intellectual and academic potential.

(d) Better trained dentists will function more efficiently and effectively in practice following graduation and will be able to play a more dynamic role in promoting oral health at both the individual and community levels in Sri Lanka.

(e) In due course the social and economic implications generally of improved oral health may be substantial.

Thus it is clear that the proposed project would contribute to the enhancement of the social well being of the nation and the achievement of health for all by the year 2000.

(vi) Publicity:

(a) The provision of a Dental Hospital on the scale envisaged will by its very nature be the immediate focus of national attention. The resulting immediate nationwide publicity and interest which the project will arouse will be considerable.

(b) The Dental students and the training auxiliaries would be among the first to notice the benefits of the project in receiving an excellent training. The impact of the project will be felt throughout the country as they set about providing high quality services to the public following the training received.

(c) The patients treated at the Faculty of Dental Sciences (expected to be around 50,000 year) will appreciate the improved service, in a modern dental school.

(d) The proposed project would provide opportunities for professional and academic interaction, and research with international collaboration and staff exchange programmes with universities abroad. This will afford international publicity to Japanese assistance in the fields of higher education and health.

05. Situation of building which should be utilized for the project:

The technical cooperation requested will be utilized in relation to the new Dental School/Dental Hospital of the Faculty of Dental Sciences that will be built with Japanese Grant Aid on the selected site belonging to the University of Peradeniya.

06. The experts to be dispatched (number/field):

3 Technicians

01 Restorative Dentistry Technician
01 Prosthetic Dentistry Technician
01 Maintenance Technician

3 Dental Specialists

01 in Restorative Dentistry
01 in Prosthetic Dentistry
01 in Radiology

07. The trainees to be accepted in Japan (number/field):

Academic Staff

Clinical Divisions - 10 x 3 months
(Which includes Oral Surgery, Oral Pathology, Oral Medicine, Periodontology, Restorative Dentistry, Prosthetic Dentistry, Paedodontics, Orthodontics, Radiology and Community Dentistry)

Para Clinical Division - 3 x 3 months
(which includes General Pathology, Microbiology and Pharmacology)

Pre clinical Division - 4 x 3 months
(which includes Biochemistry, Physiology, Anatomy and Dental Anatomy)

Priority will be given for divisions of Restorative Dentistry, Prosthetic Dentistry, Radiology, and equipment maintenance.

Technicians

Restorative Dentistry	1 x 12 months
Prosthetic Dentistry	1 x 12 months
Maintenance	1 x 12 months
Orthodontics	1 x 6 months
Oral Pathology	1 x 6 months
Radiology	1 x 6 months
Anatomy	1 x 6 months
Physiology	1 x 6 months
Biochemistry	1 x 6 months

Priority will be given for division of Restorative Dentistry, Prosthetic Dentistry, Radiology and Maintenance.

ADMINISTRATIVE SECTOR

Including Dean's Office, Student and Staff Common facilities, Computer Room, Patients Common facilities etc.

In addition, other support amenities such as transportation connected with the teaching and service functions of the institution will be required.

A further copy of the tentative basic list of this equipment which was included in the project proposal for Japanese Grant Aid which is under consideration by JICA, is annexed herewith. (Please see annexure 8)

09. Assignment of Sri Lankan Counterparts (number/designation):

Academic Staff including Dental Specialists

Please see annexure 3 for complete list of existing Sri Lankans Counterparts with qualifications.

Nurses and Technicians

Please see annexure 9 for list of counterparts presently available in Sri Lanka.

10. Connection with other Japanese assistance:

This request for project type technical cooperation is directly connected to the longstanding request for Japanese Grant Aid to reconstruct the Dental School/Dental Hospital of the Faculty of Dental Sciences, University of Peradeniya as a modern facility. Therefore project proposal titled " Project for the Improvement of Training Facilities for Dental Surgeons and Dental Auxiliaries " was submitted to the JICA Authorities in 1992 and is currently under active consideration by the Japanese Government.

11. Connection with assistance from other donors:

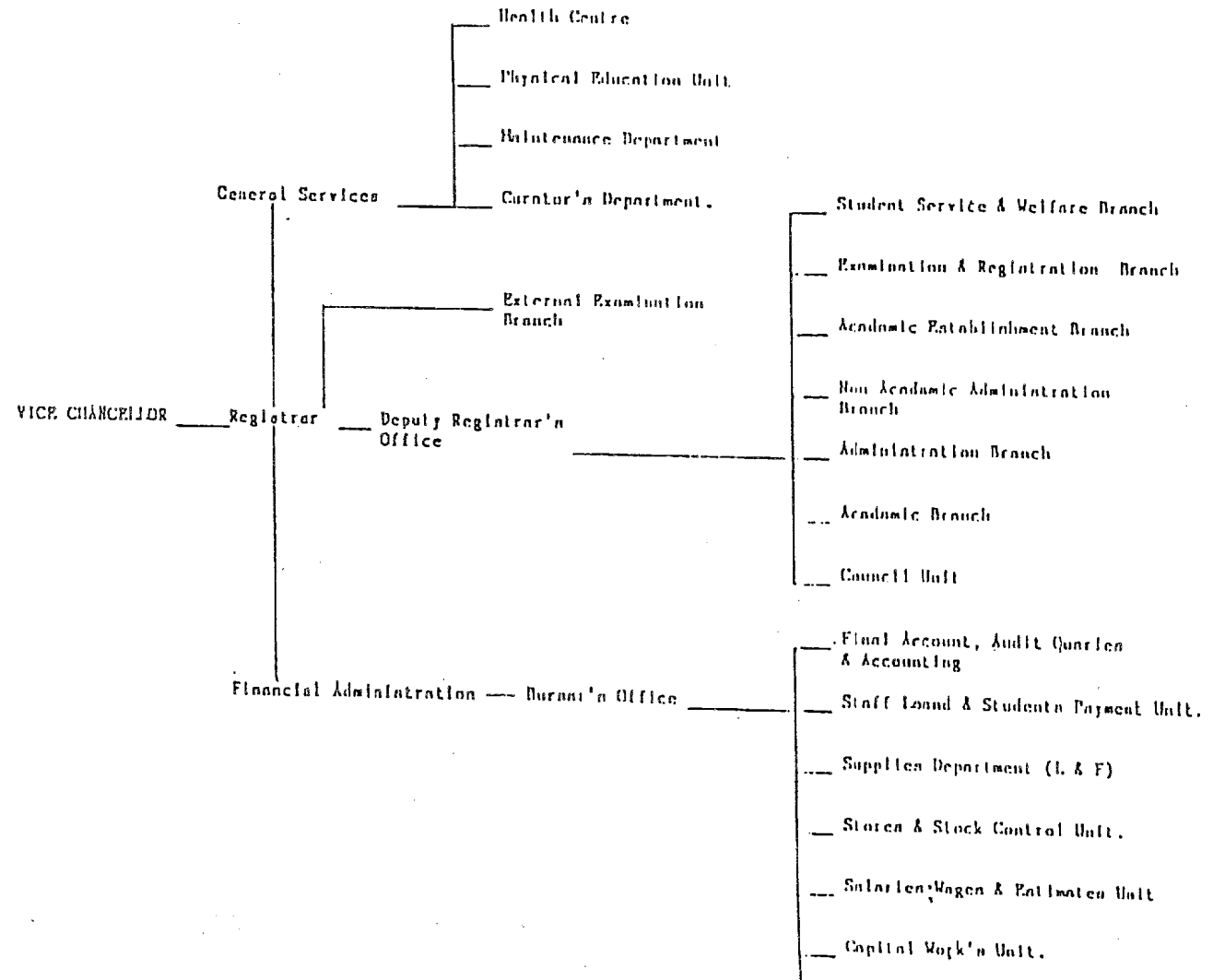
None.

ANNEXURES

Annexure 1

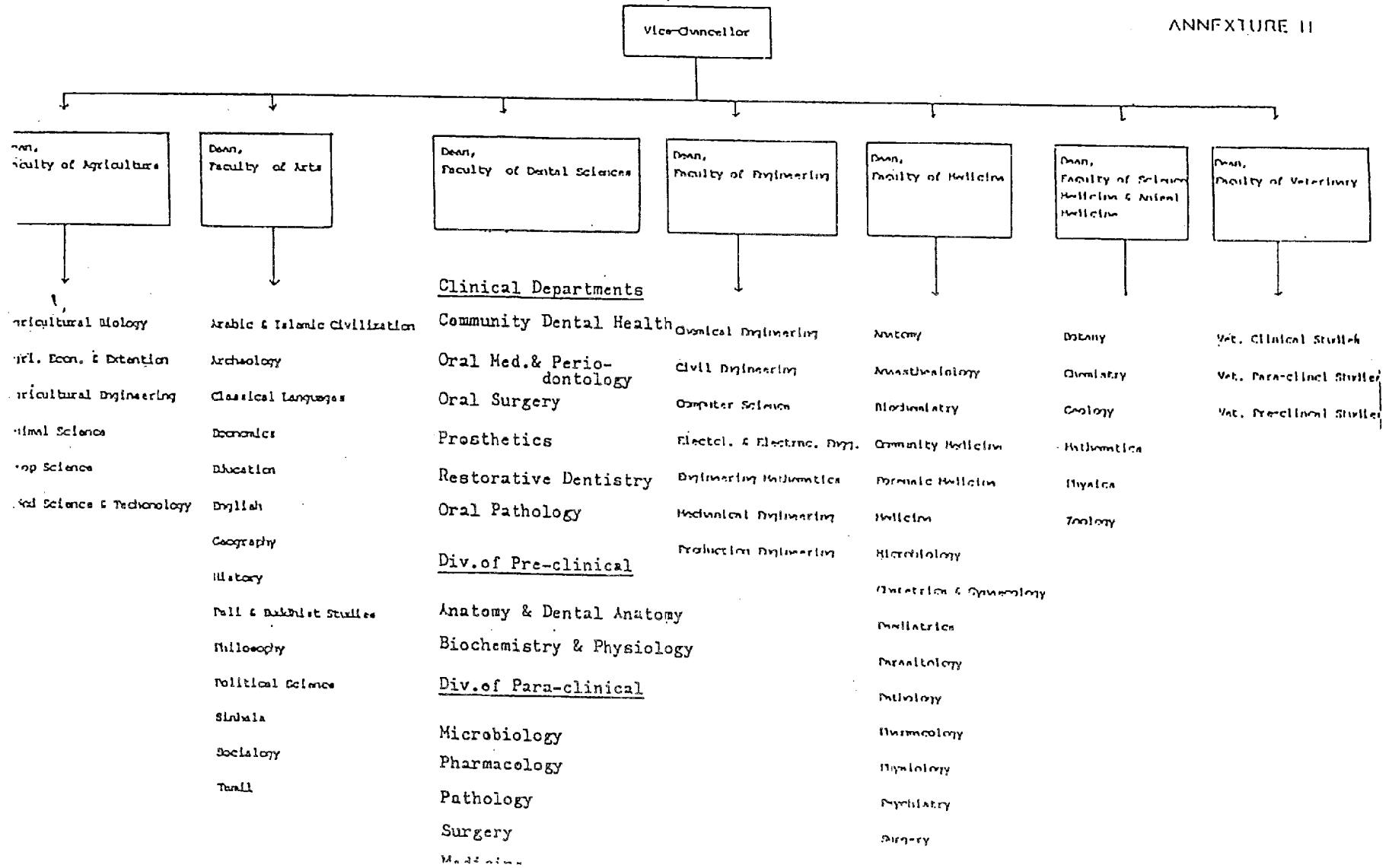
Organization Chart of University of Peradeniya (Administrative)

ORGANISATION CHART OF UNIVERSITY OF PERADENIYA.



Annexure 2
Organization Chart of University of Peradeniya (Academic)

ANNEXTURE II



MEMBERS OF THE ACADEMIC STAFF - FACULTY OF DENTAL SCIENCES

DEAN - PROFESSOR A.N.I. EKANAYAKA

DEPARTMENTS/DIVISIONS

(1) Division of Community Dentistry

PROF. A.N.I. EKANAYAKE	- PROFESSOR	- BDS, Ph.D (Lond.) DBPHRCS (Eng.)
DR. MS. S.L. EKANAYAKE	- SENIOR LECTURER	- BDS, Ph.D (Lond.)
DR. K. RAVINDRAN	- LECTURER	- BDS, MSc

(2) Division of Paedodontics

DR. R.L. WIJEUWEERA	- SENIOR LECTURER	- BDS, Ph.D (New York)
DR. V. VIJAYAKUMARAN	- LECTURER	- BDS
DR. J.K.D.J.A.U.JAYAWARDENA	- LECTURER	- BDS

(3) Divisions of Orthodontics

DR. MS. N.C. WANIGASCORIYA	- SENIOR LECTURER	- BDS, DDO RCPS (Glasgo)
DR. MS. S.P.N.P.NAGARATNE	- SENIOR LECTURER	- BDS, MS (Sri Lanka)
DR. S. PREMARAJ	- LECTURER	- BDS

DEPARTMENT OF ORAL MEDICINE & PERIODONTOLOGY

(1) Division of Oral Medicine

DR. A.W. RANASINGHE	- SENIOR LECTURER	- BDS (Cey.), M.Med.Sc. Ph.D (Lond.)
DR. M.A.M.SITHEEQUE	- SENIOR LECTURER	- BDS, FDSRCS (Glasgow)

(2) Division of Periodontology

DR. MS. P.S. RAJAPAKSE	- LECTURER	- BDS
DR. A. CHANDRASEKERA	- LECTURER	- BDS
DR. MS. A. TILAKARATNE	- LECTURER	- BDS

DEPARTMENT OF ORAL PATHOLOGY

PROF. B.R.R.N.MENDIS	- PROFESSOR	- BDS, FBSRCS (Eng. & Edin.) Ph.D(Bristol)
DR. E.A.P.D. AMARATUNGA	- SENIOR LECTURER	- BBS, M.Sc.(Lond.)
DR. W.M. TILAKARATNE	- LECTURER	- BDS

DEPARTMENT OF ORAL SURGERY

PROF. N.A.DE. S. AMARATUNGE	- PROFESSOR	- BDS, FDSRCS(Edin.), Ph.D.
DR. W.M.P.S.K. WIJEKON	- LECTURER	- BDS
DR. J.U. WEERASINGHE	- SENIOR LECTURER	- BDS, MS (Sri Lanka)

DEPARTMENT OF PROSTHETICS DENTISTRY

DR. T. ANANDAMOORTHY	- SENIOR LECTURER	- BDS, FDSRCP(Glasgow)
DR.(MS) K.RAVINDRAN	- LECTURER	- BDS
DR. J.A.V.P.JAYASINGHE	- LECTURER	- BDS

DEPARTMENT OF RESTORATIVE DENTISTRY

DR. L.C.L.PEIRIS	- SENIOR LECTURER	- BDS, MD.Sc(Sydney)
DR. K.M.WIJERATNE	- LECTURER	- BDS
DR.(MS) D.I.AMARATUNGA	- LECTURER	- BDS
PROF.L.TILLEKERATNE	- PROFESSOR	- LDS(Cey.) DDS(Pensly)
DR.(MS) P.M.RATNAWEERA	- LECTURER	- BDS

BIOCHEMISTRY

DR. W.R.WIMALASIRI	- SENIOR LECTURER	- B.Sc., Ph.D.(Sri Lanka)
DR. H.M.C.SHANTHA KUMARA	- SENIOR LECTURER	- B.Sc., Ph.D.

PHYSIOLOGY

DR. A.J.PITIGALAARACHCHI	- SENIOR LECTURER	- BDS, Ph.D.(Bristol)
DR. (MS) Y.A.M.ARSECULARATNE	- LECTURER	- MBBS
DR.(MS) J.K.CHANDRASEKERA	- LECTURER	- BDS

ANATOMY

PROF. A.D.P.JAYATILAKA	- SENIOR LECTURER	- MBBS, Ph.D.
DR. (MS) Y.ARUDCHELVAM	- LECTURER	- BDS

DENTAL ANATOMY & HISTOLOGY

DR.(MS) T.RAMESH	- LECTURER	- BDS
------------------	------------	-------

Contd...3

PATHOLOGY

DR. U.B.DISSANAYAKE	- LECTURER	- BDS
DR.(MS) V.NAVARATNE	- LECTURER	- BDS

MICROBIOLOGY

MR. G.J.PANAGODA	- LECTURER	- B.Sc., M.Sc.
DR. (MS) T.PREMARAJ	- LECTURER	- BDS

PHARMACOLOGY

DR. S.M.X.COREA	- SENIOR LECTURER	- MBBS, MD
DR. A.N.B.ELLEPOLA	- LECTURER	- BDS

Project-type Technical Cooperation for Improvement of Dental Education Faculty of Dental Sciences University of Peradeniya Sri Lanka

**Report of the Supplementary Study
15th MAY - 18th JUNE , 1997**

Compiled by

Dr. Handa Yujiro and Dr. Ajith W. Ranasinghe

The study was carried out using the following resource personnel.

**Core Group, Faculty of Dental Sciences,
University of Peradeniya,
Sri Lanka**

Prof. N. A. de S. Amaratunga	(Oral-maxillofacial Surgery)
Prof. A. N. I. Ekanayaka	(Community Dentistry)
Prof. B. R. R. N. Mendis	(Oral Pathology)
Dr. A.J. Pitigala Arachchi	(Basic Sciences)
Dr. Ajith W. Ranasinghe	(Oral Medicine)
Dr. R.L. Wijeyeweera	(Paedodontics)

&

JICA Study Team

Dr. Y. Handa	(Human Resource Development in Health Sector, JICA/IFIC)
Prof. K. Hashimoto	(Dental Material Science, Nippon Dental University)
Prof. J. Tagami	(Restorative Dentistry, Tokyo Medical and Dental University)

Planning & Layout

Menaka Silva	(Dean's Office)
Dr.J.U.Weerasinghe	(Dept. of Oral Surgery)
Tissa Wijeratne	(Dean's Office)
Padmini Wijeratne	(Dean's Office)
D.G. Wijeratna	(Dean's Office)

Name lists: Appear in Alphabetical order

CONTENTS

1 INTRODUCTION

- 1.1 Background of the Grant Aid Project
- 1.2 Need for Project type Technical Co-operation Assistance (PTCA)
- 1.3 Definition and implications of the 6-week Supplementary Survey(SS) in the preparatory phase of the Technical Co-operation

2 METHODS OF PLANNING

- 2.1 Planning the workshop with a modified procedure of Project Cycle Management (PCM) Method
- 2.2 "Focus group discussion" on training targets and programme development

3 RESULTS

3.1 Project Design Matrix (PDM) of the PTCA

3.2 Review of training needs of the 18 disciplines of the faculty, for capability building

3.3 Training programme development, keeping in line with the identified training targets

3.3.1. Strategy of designing the training programme

3.3.2. Brief description of the specialities in the Faculty of Dental Sciences.

3.3.3. Grouping of disciplines for Functional Co-operation

3.3.4. Phasing and prioritizing the Training Programmes of the Faculty

3.3.5. Training Programmes

3.3.6. Logistics of planning

3.3.7. Identification of equipment necessary for the training

3.3.8. Critical evaluation of management strategies of the New Dental Faculty/Hospital Complex

4 SUMMARY AND CONCLUSION

5 REFERENCES

6 ANNEXURES

7 ABBREVIATIONS

1 INTRODUCTION

1.1 Background of the Grant Aid Project

A Japanese Government Grant Aid Project is currently being implemented to upgrade the Faculty of Dental Sciences of the University of Peradeniya. The project involves the construction of entirely new physical facilities on a new and better site adjacent to the Peradeniya General Hospital and the provision of modern equipment for student teaching, patient care and research. Following the exchange of notes between governments in May 1996 work on the project commenced in October 1996 and is due to be completed in March 1998.

The need for this project is based on the fact that Faculty of Dental Sciences is the only institution which trains dentists for Sri Lanka and has been solely responsible for such training for the past 43 years. Through its dominant role in both undergraduate and postgraduate training and direct patient care, the Faculty has an important part to play in improving oral health in Sri Lanka.

Oral disease patterns in Sri Lanka are characterized by a high incidence of mouth cancer which is the most common cancer in Sri Lanka, and the relatively wide prevalence of other common oral diseases. The effective treatment and prevention of such diseases in the next millennium will require proper human resource development, and the Faculty of Dental Sciences has a unique responsibility in this regard.

Unfortunately the infrastructure of the Faculty in terms of both physical facilities and equipment is insufficient, old, and obsolete. Many facilities such as clinics, operating theatres, wards and laboratories, necessary for the teaching and provision of modern dental care do not even exist. As a result of such serious deficiencies basic standards of teaching, service, and research have inevitably suffered.

The Grant Aid Project which is now being implemented is intended to eliminate these shortcomings and ensure that Sri Lanka has one modern dental faculty and hospital that is capable of training dentists and dental specialists to international standards.

1.2 Need for Project type Technical Cooperation Project(PTCP)

As highlighted in the section under the background of the Grant Aid Project, the need for Project Type Technical Co-operation Assistance arose due to two principal reasons. Firstly the Grant Aid had taken care of only the deficiencies related to the equipment and physical facilities. However, staff members felt that lack of competency in proper utilization of the physical facility including modern equipment could jeopardize the sustainability of the project in the long run. To overcome this deficiency the Project Type Technical Co-operation Assistance programme (PTCA) was planned by the visiting Supplementary Study Team along with the staff of the Faculty of Dental Sciences . This planning took into consideration the specific needs of teaching and service areas of the Faculty together with the research needs directly related to these two important functions.

Secondly, some of the training programmes related to teaching, service functions, patients functions and to a lesser extent research, require equipment directly linked to the training needs. Such equipment were carefully identified and requested through this training scheme.

In planning the Project type Technical Co-operation Assistance, a modified method of Project Cycle Management (PCM) strategy was adopted and the three activities in this scheme, namely participatory planning, appraisal and monitoring and evaluation, were integrated to generate a Project Design Matrix for the entire project and presented in a table form under Annexure 1 for easy reference. A similar strategy was adapted in planning the Grant Aid Project and the summary table of this PDM is given in Annexure II. However for details the reader is expected to refer the original document listed under the reference list.

1.3 Definition and implications of 6-week-Supplementary Survey(SS) in the preparatory phase of the Technical Co-operation

1.3.1 Definition of the Supplementary Survey (SS)

The SS is defined as a planning process pertaining to PTCA in which various training programmes are organized for capability building of human resources. A preliminary fact finding mission visited the Faculty of Dental Sciences in January, 1997. Thereafter, the present survey was conducted from 16th May to 18th June 1997 using the 'Participatory Planning Method '.

1.3.2 Implications of the Supplementary Survey (SS)

The SS is not merely an activity to collect information, but an opportunity to design the project, focusing attention to Human Resource Development (HRD). In addition, strategies were planned for long term sustenance of the physical facilities including equipment provided by the grant aid.

2 METHODS OF PLANNING

2.1 Planning workshop adopting a modified method of Project Cycle Management (PCM)

2.1.1 Participants (In alphabetical order)

Core Group Members

Prof. N. A. de S. Amaratunga	(Oral-maxillofacial Surgery)
Prof. A. N. I. Ekanayaka	(Community Dentistry)
Prof. B. R. R. N. Mendis	(Oral Pathology)
Dr. A.J. Pitigala Arachchi	(Physiology)
Dr. Ajith W. Ranasinghe	(Oral Medicine)
Dr. R. L. Wijeyeweera	(Paedodontics)

Representatives Of Disciplines

Dr. E.A.P.D. Amaratunga	(Oral Pathology, General Pathology)
Dr. T. Anandamoorthy	(Prosthetic Dentistry)
Dr. A. Chandrasekera	(Periodontology)
Dr. S.M.X. Corea	(Pharmacology)
Dr. (Ms) S.P.N.P. Nagaratne	(Orthodontics)
Dr. P. Samaraweera	(Anatomy, Dental Anatomy)
Dr. M.A.M. Sitheequa	(Oral Medicine, Oral maxillofacial Radiology)
Dr. J.U. Weerasinghe	(Oral-Maxillofacial Surgery)
Dr. K.A. Wettasinghe	(Restorative Dentistry)
Dr. W.R. Wimalasiri	(Biochemistry)

Japanese Study Team Members

Dr. Y. Handa	(Human Resource Development in Health Sector, JICA/IFIC)
Prof. K. Hashimoto	(Dental Material Science, Nippon Dental University)
Prof. J. Tagami	(Restorative Dentistry, Tokyo Medical and Dental University)

2.1.2 Goal and Purpose of the Workshop

At the onset, the participants agreed upon the following statements as Goal and Purpose of the Workshop.

Goal: Supporting Committee of the JICA Headquarters finalizes the plans to dispatch Japanese Experts and to receive Sri Lankan Trainees at the host institutes in Japan.

Purpose: Drafting of the training programmes to be implemented during the 5 year-PTCA

2.1.3 Work shop/discussion schedule with time-frame

Duration: 13-05-97 TO 18-06-97

DATE	Morning (9.00 - 12.00)	Afternoon(1.30 - 4.30)
16-5-97 (Fri)	Finalizing the agenda	Visit to the construction site
17-5-97 (Sat)	-----	-----
18-5-97 (Sun)	-----	-----
19-5-97 (Mon)	PCM workshop, Participation analysis Problem analysis (1)	
20-5-97 (Tue)	Objective analysis	Alternative analysis
21-5-97 (Wed)	-----	-----
22-5-97 (Thu)	-----	-----
23-5-97 (Fri)	PDM (Narrative Summary)	PDM (Narrative Summary)
24-5-97 (Sat)	-----	-----
25-5-97 (Sun)	-----	-----
26-5-97 (Mon)	Training programme planning: Prosthetic Dentistry, Orthodontics, Paedodontics & Periodontology	Cont.
27-5-97 (Tue)	Training programme planning: Basic Sciences, Gen. & Oral Pathology and Microbiology	Cont.
28-5-97 (Wed)	Training programme planning: Restorative Dentistry, Pharmacology, Oral Medicine and Radiology	

DATE	Morning(9.00 - 12.00)	Afternoon(1.30 - 4.30)
29-5-97 (Thu)	Training programme planning: Community Dentistry, Oral Surgery & Dean's Office	Profs.Hashimoto & Tagami visiting the Hospital Campus
30-5-97 (Fri)	Training programme planning: Organizing the phasing of Training programmes	
31-5-97 (Sat)	-----	-----
1-6-97 (Sun)	-----	-----
2-6-97 (Mon)	Visit to JICA office by Dr. Handa	
3-6-97 (Tue)	Basic Sciences ,Restorative Dentistry, Prosthetic Dentistry, Orthodontics, Paedodontics & Periodontology (Review)	Cont.
4-6-97 (Wed)	PDM, means of verification & inputs	Pathology, Microbiology & Pharmacology (Review)
5-6-97 (Thu)	Oral Surg/Oral Med./Oral Path, Dean's Office (Review)	PDM presentation & Review
6-6-97 (Fri)	Discussion of Equipment	Management of New Dental Faculty/Hospital Complex
7-6-97 (Sat)	-----	-----
8-6-97 (Sun)	-----	-----
9-6-97 (Mon)	Documentation	Cont.
10-6-97 (Tue)	Discussion of 1st draft	Cont.
11-6-97 (Wed)	Preparation of charts for training programmes	Cont.
12-6-97 (Thu)	Finalizing the documents	Cont.
13-6-97 (Fri)	Discussion on the equipment	Presentation of proceedings to the faculty board
	Dinner to the faculty staff by Dr. Handa	
14-6-97 (Sat)	-----	-----
15-6-97 (Sun)	-----	-----
16-6-97 (Mon)	Finalizing the documents	Cont.
17-6-97 (Tue)	Finalizing the documents.	Cont.
18-6-97 (Wed)	Presentation of the work shop proceedings at JICA/Colombo 10.30 am	

2.1.4 Venue

Reading Room, Faculty of Dental Sciences (35 m²)

The room had two large walls to accommodate matrix papers (180 x 280 cm each). All procedures were conducted using these matrix papers and card system (Point Memo 7 x 20 cm, Kindai-Shji, Tokyo) Proposals submitted by the participants were written on the cards and placed on the matrix paper.

2.2 'Focus group discussion' on training target and programme development

All discussion on training targets and candidate training programmes were conducted in the form of 'focus group discussion' by the members of the Japanese delegation, Core Group Members and the heads of departments / divisions responsible for each training programme along with the intermediate and junior academic staff. (Full list of academic cadre is given in Annexure VIII.)

3 RESULTS

3.1 Project Design Matrix (PDM) of the PTCA

Target Group: The Faculty of Dental Sciences, University of Peradeniya

The PDM is attached (See Annexure I).

3.2 Review of training needs of the 18 disciplines of the faculty for capability building for human resources

The training needs of the 18 disciplines were reviewed. Fifty eight (58) training needs (targets) were presented by the heads of the respective departments and divisions responsible for teaching programme. The group carefully analysed the training needs of each discipline and this information was presented in the form of a narrative summary (Goal / Purpose / Outputs) in a purpose-oriented manner (See Annexure IV). At the same time, the relevance of the training was also verified with reference to the needs, priority, feasibility and accountability. The two Japanese Experts provided basic information with regard to trainers and host institutes in Japan.

3.3 Training programme development, keeping in line with the identified training targets

3.3.1 Strategy of designing the training programmes (See Annexure IV)

The training needs of each discipline was formulated using the basic principle of PCM, i.e. Goal, Purpose, Outputs.

3.3.2 Brief description of the specialties in the Faculty of Dental Sciences

The disciplines that have been identified for training is given below with a brief description of the respective disciplines.

CLINICAL DISCIPLINES

- | | |
|------------------------------|---|
| RESTORATIVE DENTISTRY | - Restoring (filling) and rehabilitation of teeth |
| PROSTHETIC DENTISTRY | - Replacement of lost teeth and other oro-facial structures. |
| PERIODONTOLOGY | - Deals with gingival (gum) diseases and establishment of healthy gums |
| ORTHODONTICS | - Correction of malpositioned or malaligned teeth and jaw deformities |
| PAEDODONTICS | - Deals with dental and oral diseases in children including the development of the face and dentition. |
| ORAL SURGERY | - Deals with surgical management of dental and oral diseases such as cancer, facial deformities including cleft lips and palates. |
| ORAL MEDICINE | - Deals with the non surgical management of oral diseases such as facial pain and mucosal diseases. |
| RADIOLOGY | - The science of investigation, using X-rays for diagnostic purposes |
| ORAL PATHOLOGY | - Deals with the microscopic diagnosis of dental and oral diseases. |
| COMMUNITY DENTISTRY | - Oral health promotion and prevention at an individual and public health level. |

PARA CLINICAL DISCIPLINES

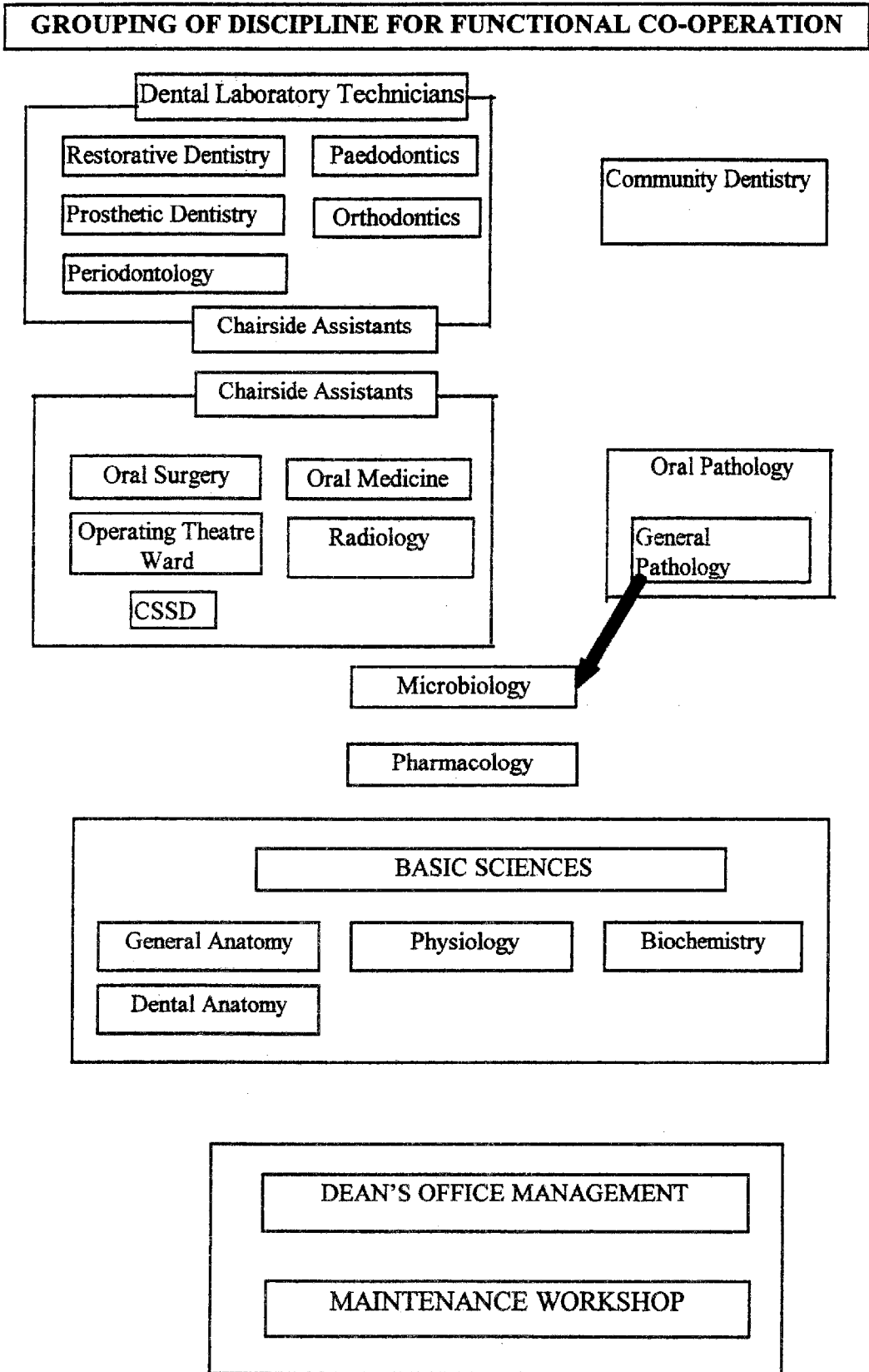
- GENERAL PATHOLOGY** - Provides a foundation knowledge on the processes of disease
- MICROBIOLOGY** - Study of micro organisms and how they cause disease
- PHARMACOLOGY** - The study of drugs, their mode of action and their use in the treatment of disease.

PRE CLINICAL DISCIPLINES

- BIOCHEMISTRY** - Study of the chemical basis of biological processes in the human body.
- PHYSIOLOGY** - Study of the functions of tissues, organs and organ systems of the body.
- ANATOMY** - Study of the macroscopic and microscopic structures of the human body.
- DENTAL ANATOMY** - Study of the macroscopic and microscopic structures of teeth and their supporting tissues.

3.3.3. Grouping of Disciplines for Functional Co-operation

Considering the nature of work, teaching and patient services, certain disciplines and divisions were grouped together. This grouping is shown in Chart I (See Annexure III).



Restorative Dentistry, Prosthetic Dentistry, Periodontology was put into one group and Paedodontics and Orthodontics was put into another group while both these groups were put into one major group considering their involvement in the dental laboratories and clinics, where the services of dental technicians are used in the former and the chairside assistants are used in the latter. Community Dentistry was grouped separately as this division deals with oral health promotion and prevention of disease.

Hospital based specialties such as Oral Surgery, Oral Medicine and Radiology was grouped together as one functional unit.

Although Microbiology, Pharmacology and General Pathology come under Para Clinicals, the discipline of General Pathology was grouped with Oral Pathology for logistic purposes.

The Pre Clinicals disciplines namely General Anatomy, Dental Anatomy, Physiology and Biochemistry were grouped under Basic Sciences.

In this same scheme the Dean's Office and maintenance workshop which comes under the purview of the Dean's Office were grouped together.

3.3.4. Phasing and prioritizing the training programmes of the Faculty

The next question to address was the criteria for phasing and prioritizing of the suggested training programmes. The entire training was phased over a period of 5 yrs.

Three phases were identified on the following criteria.

PHASE I - Lack of training at present(today), while a new facility will be established in 1998.
(2 yrs)

Therefore , adequate consideration and high priority was given to the most deficient areas or disciplines in relation to teaching and patient service functions.

PHASE II - Some expertise is available at present (today) while a new facility will be established in 1998
(2 yrs)

The purpose of this phase therefore is to strengthen the teaching and patients service component.

**PHASE III - Expert training is available today while
(1 yr) a new facility will be available in 1998
for further development.**

Considering the expertise available some consideration was given for advanced training and research based training directly related to teaching and patient service functions in this phase.

3.3.5 Training programmes

Fifty-eight(58) training programmes, 33 to be conducted at Peradeniya and 25 to be conducted in Japan, were developed. The details of the training programmes (List of Training Programmes) are shown in the Annexure V. The efficiency, effectiveness and future impact of each training need was carefully analysed during the formulation of each training programme.

3.3.6. Logistics of planning

Grouping of specialties for training, phasing of the training programmes over a 5 year period and prioritizing the training programmes were done with careful planning (See Annexures V. and VI.).

3.3.7. Identification of equipment necessary for the training

It was found that most of the departments and divisions of study of the Faculty of Dental Sciences would require equipment for the realization of the training programmes they had proposed. As the total cost of these equipment could exceed the funds available for the project, it was necessary to prioritize the items of equipment.

Criteria for prioritizing were identified and categorized on the basis of ‘ Very Essential ‘ equipment , ‘Essential’ equipment and ‘Desirable’“ equipment. Accordingly, the equipment was placed into the following three groups.

	Very Essential equipment	Essential equipment	Desirable equipment
Criteria	Cannot start work in 1998 without this equipment. Equipment is essential for teaching and service functions.	Equipment with multiple usage. Equipment is essential for teaching and service functions.	Research equipment. Directly related to training programmes which has an impact on teaching and service functions.
Examples:	Anatomical Articulator	Digitizer and Plotter	Florida Probe

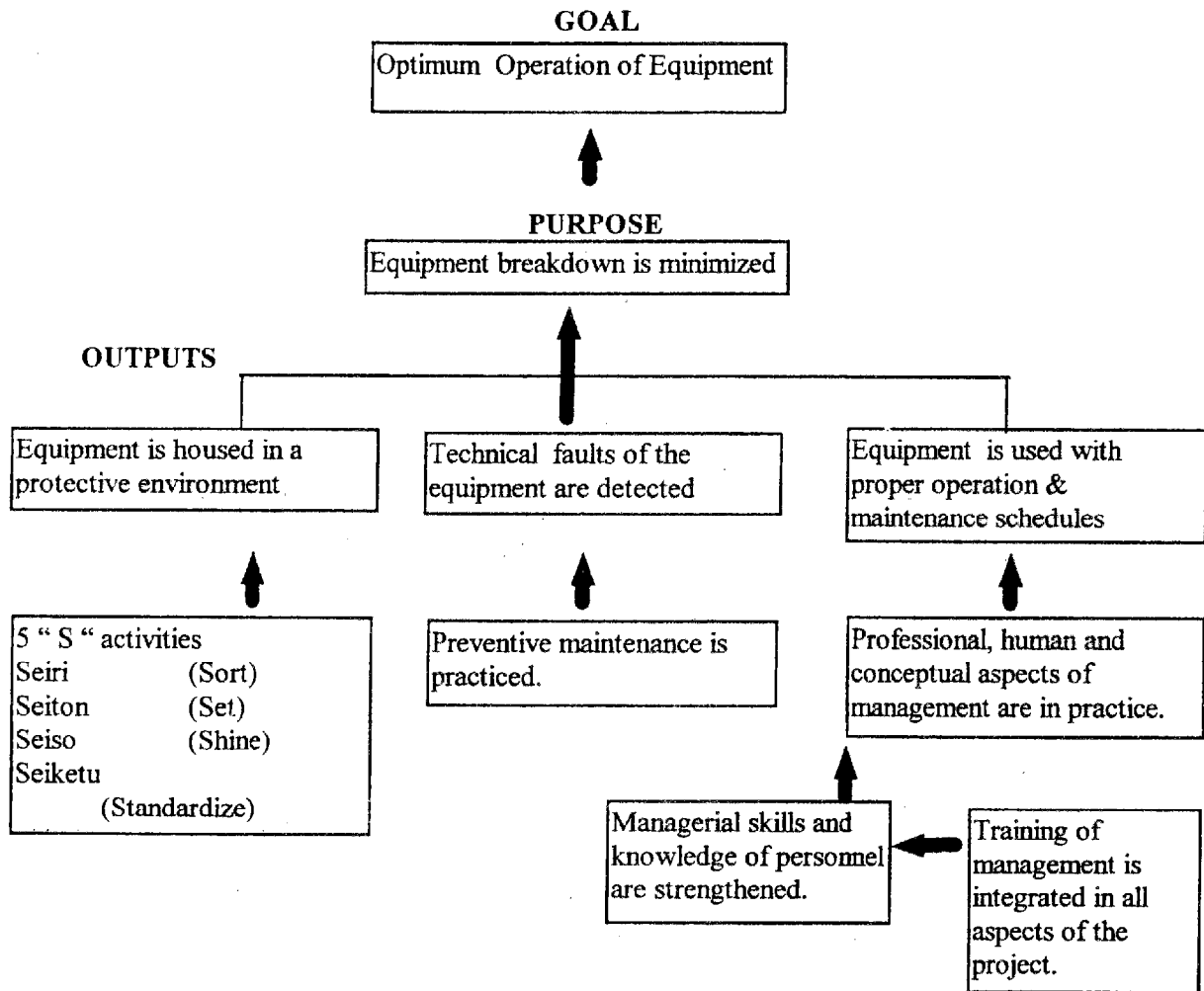
(Full list of equipment is given in Annexure VII.)

3.3.8. Critical evaluation of management strategies of the new dental faculty and hospital complex

The following aspects were confirmed in the workshop as the areas of training for this project.

01. Management skill : Professional Skills , Human skills and Conceptual skills of academic and non-academic staff of the Faculty/Hospital Complex.
02. Practice of 5S activities (#) throughout the Faculty/Hospital Complex
 # : A part of Total Quality Control Activities to ensure high productivity of the teaching, service, and research. 5S represents the Seiri (Sort or Clearing up). Seiton (Set or Organizing). Seiketu (Shine or Cleaning), Seiketuo (Standardize) and Shituke (Sustain or Training/Discipline).
03. Practice of Preventive Maintenance of the equipment
04. Awareness creation of Physical Facility Management among academic and non-academic staff of the Faculty.

The following is a objective tree for strategies of equipment management.



4. SUMMARY AND CONCLUSIONS

SUMMARY

Project Design Matrix (PDM) system was adopted to plan the Technical Cooperation Project.

The overall Goal and Purpose of the project were identified and the Outputs needed to realize the purpose were determined. The Activities necessary to achieve each Output were described.

The departments and divisions were requested to propose training programmes that would conform with the Activities of the PDM. Each of these programmes had a Goal and a Purpose and several Outputs necessary to achieve the Purpose. The trainers, trainees and the venue of training and the equipment needed were determined. These training programmes totaling 58 had to fit into the Five Year Programme and therefore they had to be prioritized and grouped into three phases, namely Phase I, Phase II and Phase III.

CONCLUSIONS:

1. PDM system proved to be an objective oriented and a thorough method of planning a training programme of this magnitude which involved 58 individual training programmes.
2. The needs of the Faculty together with areas requiring further strengthening of the Faculty was looked into and suitable programmes were developed in order to meet these needs.
3. In looking at the final out-come of this exercise, it may be concluded, that the Faculty of Dental Sciences and the Japanese Donors could be fully satisfied with these proposals.

5. REFERENCES

1. Report of Preliminary Survey for Project Type Technical Co-operation Assistance - 7th January 1997 compiled by the Faculty of Dental Sciences.
2. PCM - Management Tool For Development Assistance, Foundation for Advanced Studies on International Development, Tokyo (1995).
3. Guidelines for project progress reviews GTZ Publication, Division 012, Quality Assurance, Organization (1989).
4. Methods and instruments for project planning and implementation GTZ publication.
5. Project Type Technical Co-operation - JICA Publication.
6. HRD Through In-House Training, PL Rao, Indian Society for Training and Development (1996).
7. Maintenance and Spare Parts Management, P. Gopalakrishnam & A.K. Banerji , Prentice-Hall of India Pvt. Ltd, New Delhi (1991).
8. GTZ Managing On-site Project Implementation, A Guideline, (1989).
9. Clinical Management for Health Centres and Dispensaries Edited by P.L. Petit,N. Janmohamed, C.H.Wood, F.J. Benmet AMREF, Nairobi (1987).
10. Assessing District Health Needs, Services and Systems A.A. Kielmann, K. Janovsky, H.Annett, AMREF, Nairobi (1991).
11. Continuing Education for Health Workers Training Department, AMREF, Nairobi (1983).
12. Guidelines for the Management of Hospital Out-patient Services J.Maneno, P.Schluter, A.C. Sjoerdsma, L.C. Vogel, F. Savage King, AMREF, Nairobi (1982).
13. Health Service Management, Learning Materials, Volume I Edited by S.Kanani, J.Maneno, P. Schluter, AMREF, Nairobi (1984).
14. A Practical Laboratory Manual for Health Centres in Eastern Africa , J.Carter, O.Lema, AMREF, Nairobi (1994).

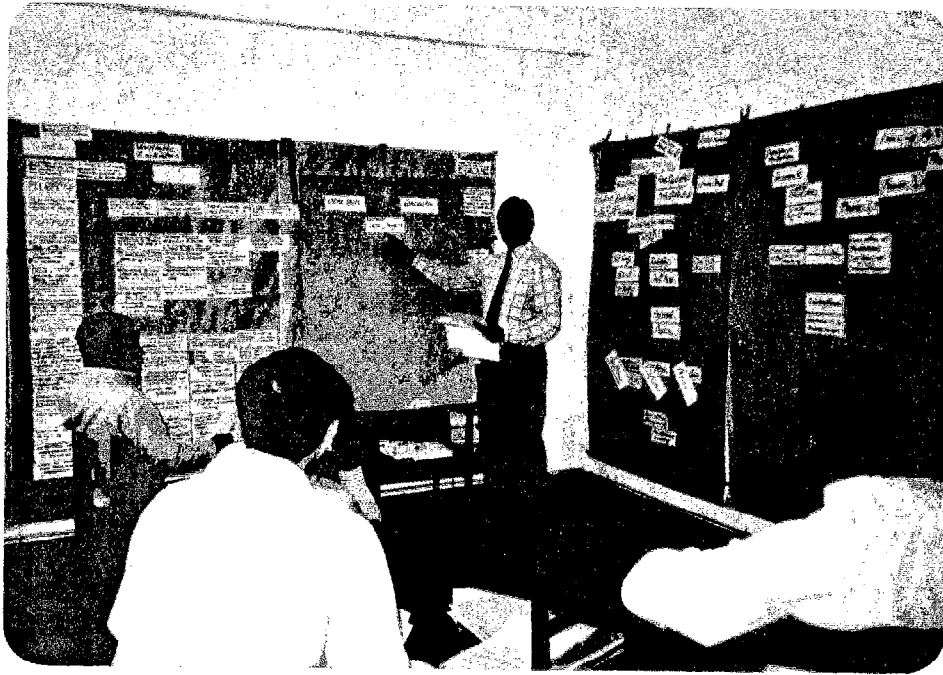
6. ANNEXURES

- I. PDM (Tech. Co-op.)
- II. PDM (Grant Aid.)
- III. Grouping of Disciplines for Functional Co-operation
- IV. Strategy of designing of training programmes
- V. Phasing of the Training Programmes
- VI. List of Training Programmes
- VII. Equipment List for Training Programmes
- VIII. Dental Faculty Academic staff Cadre

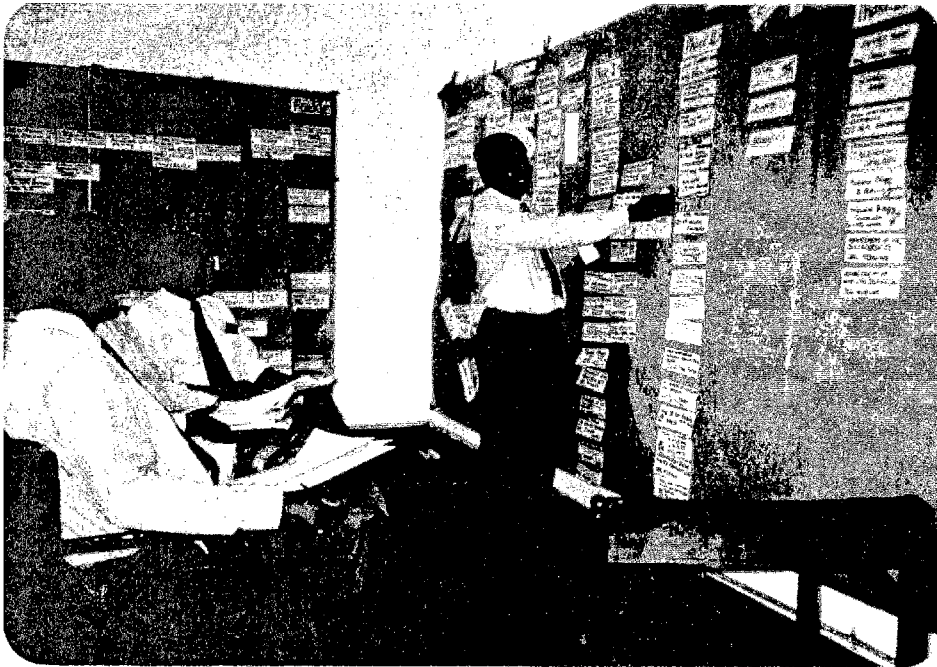
7. ABBREVIATIONS

HRD	: Human Resource Development
PCM	: Project Cycle Management
PDM	: Project Design Matrix
PTCA	: Project Type Technical Co-operation Assistance

Progress of the Proceedings of the Workshop



Prof. B.R.R.N.Mendis discussing the basis of the phasing of training programmes



Dr. R.L. Wijeyeweera explaining the rationale for prioritizing the training programmes

Annexure I

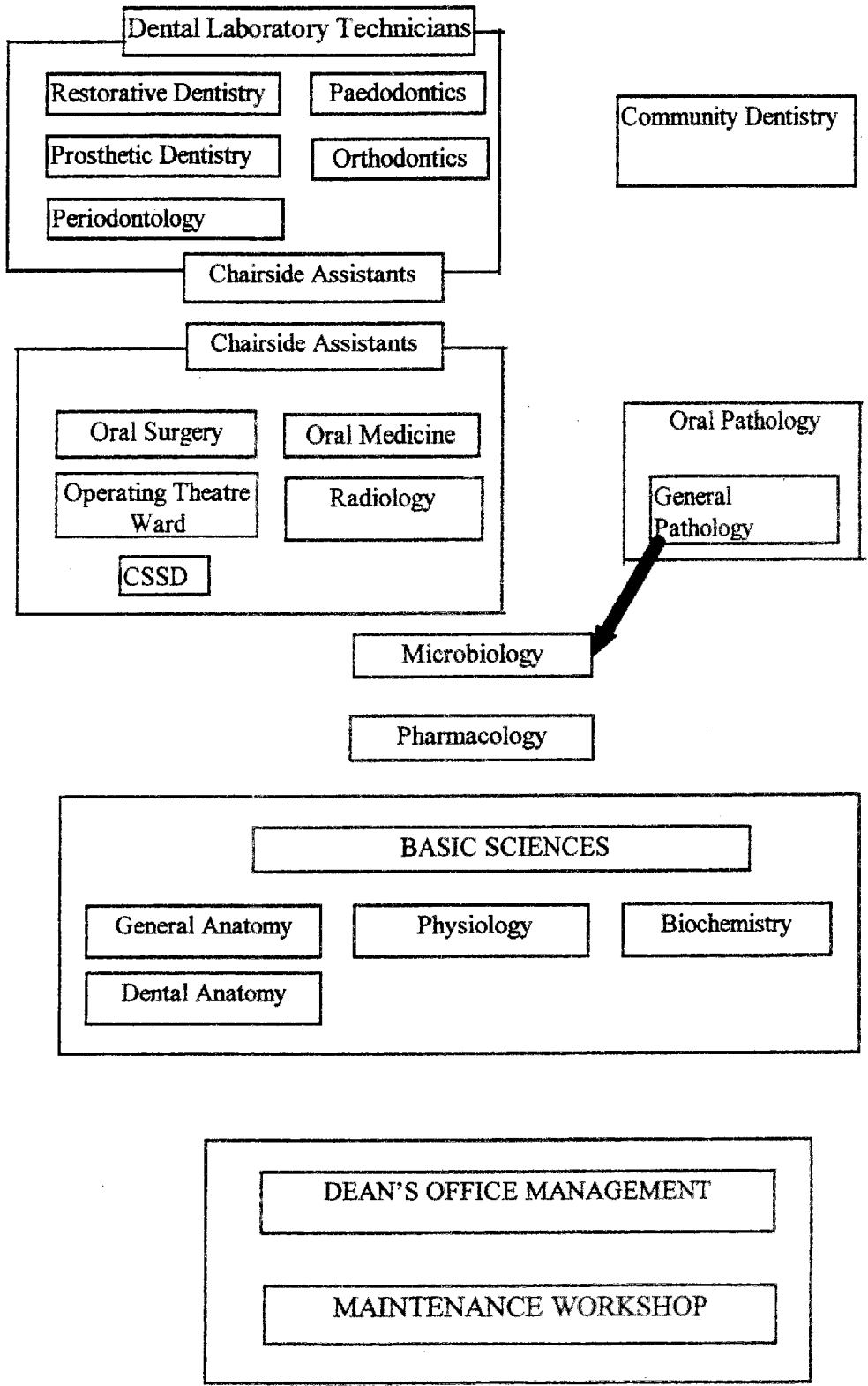
Narrative Summary	Verifiable Indicators					Means of Verifications			Important Assumptions
<p>GOAL</p> <p>To Promote continuing advances in Dental Teaching, Services and Research in the Dental Faculty.</p>	<p>500 Lankans Postgraduate MSc/Phil Degrees are increased from 65 (97) to 15 (97) 2007.</p>	<p>No. of Dental graduates practicing 4 hands dentistry (X: 87) to (Y: 2003) - Baseline survey</p>	<p>Postgraduate research seminars will increase from X to Y</p>	<p>No. of clinical education practices by the Faculty by 2003</p>	<p>Records of Degrees (Univ. Period No.1)</p>	<p>Questionnaire/Survey conducted by the Faculty</p>	<p>Records of Activities in the Faculty</p>	<p>500 Lankans recognize the new Dental Faculty/Hospital Complex of the best training and treatment facilities</p>	
<p>PURPOSE</p> <p>The Dental Faculty achieves optimum standards of function.</p>	<p>Student performance at examinations improved pass rate increase by 15% honours increase by 3%</p>	<p>Patient waiting lists reduced from (X: 27) to (Y: 2002) (Need B.I., D.)</p>	<p>Number of 60 groups working for the Faculty increase 2 (87) to 10 (2003)</p>	<p>Faculty Records</p>	<p>Records of Activities in the Faculty</p>	<p>Training activities will continue locally. The Ministry of Higher Education will continue to provide release time.</p>	<p>Govt. continues to provide incentives of dental training. An appropriate scheme of patient charges will be formulated and adopted.</p>		
<p>OUTPUTS</p> <p>1. Knowledge and skills of Academic Staff are improved.</p> <p>2. Capability of Technical Staff is improved.</p> <p>3. Capability of General Nurses & Dental Nurses improved.</p> <p>4. Management skills of the Dental Faculty staff were developed.</p> <p>5. To have the capability to develop continuing education programmes</p>	<p>1.1. The number of patients treated is increased from 32000 to per yr at present 190000 per yr in 2002</p>	<p>1.2. The total number of X-rays reported is increased from 1000 to 4000 per yr.</p>	<p>*3. Number of publications from the staff will double</p>	<p>1.A. Number of Textbook/Manuals written by Faculty staff increased 307 to 162/2003</p>	<p>Faculty Records</p>	<p>Trained staff will work hard with dedication</p>			
	<p>1.1. Work output of Technical of each division increase 90% in 2003</p>	<p>2.2. Four handed dentistry will be practiced in 50 Restorative Faucal/Par. a/c Surg./Prosthodontics</p>	<p>4.3. Breakdown rate of hand piece area after one yr 1987 - 1993 (42% - 20%)</p>	<p>4.4. Minute nurse Records is continuously organized in 80 to areas.</p>	<p>Record of Divisions</p>	<p>Trained Technicians are present.</p>			
	<p>3.1. Incidences of cross infection reduced from 3% to 1% (R.I.S)</p>	<p>4.3. Breakdown rate of hand piece area after one yr 1987 - 1993 (42% - 20%)</p>	<p>4.3. Breakdown rate of hand piece area after one yr 1987 - 1993 (42% - 20%)</p>	<p>4.4. Minute nurse Records is continuously organized in 80 to areas.</p>	<p>Hospital records</p>				
	<p>4.1. Afternoon dental consultation less R at 10%</p>	<p>4.3. Breakdown rate of hand piece area after one yr 1987 - 1993 (42% - 20%)</p>	<p>4.3. Breakdown rate of hand piece area after one yr 1987 - 1993 (42% - 20%)</p>	<p>4.4. Minute nurse Records is continuously organized in 80 to areas.</p>	<p>Faculty records</p>				
	<p>5.1. Continuing education programmes will be increased from 3 to 4 yr</p>				<p>Faculty records</p>				
<p>ACTIVITIES</p> <p>Output 1</p> <p>1.1. Identify what knowledge and skills are lacking for each discipline.</p> <p>1.2. Identify training needs of each discipline</p> <p>1.3. Prepare the training needs of each discipline</p> <p>1.4. Identify what human resources are available</p> <p>1.5. Identify the training objectives</p> <p>1.6. Identify the training materials</p> <p>1.7. Determine the mode of training</p> <p>1.8. Identify the resources available for training</p>	<p>Output 2</p> <p>2.1. Identify the sectors which have technicians</p> <p>2.2. Identify the training needs of each sector</p> <p>2.3. Prioritize the areas of technical training needed</p> <p>2.4. Equipment & materials needed for training to be identified</p> <p>2.5. Identify the trainees</p> <p>2.6. Determine the mode of training</p> <p>2.7. Identify training programme developed</p> <p>2.8. Identify the technical staff working in the sectors</p>	<p>Output 3</p> <p>3.1. Committee dealing with education of Nurses is established</p> <p>3.2. Protocols for specific training activities developed</p> <p>3.3. Evaluation monitoring procedures for training activities are formulated</p> <p>3.4. Manuals prepared</p> <p>3.5. Baseline for mode of training</p> <p>3.6. Effective training programmes for Nurses developed</p> <p>3.7. Undergraduate Nursing staff training programmes</p>	<p>Output 4</p> <p>4.1. Identify the sectors where management skills are important for the efficient running of the Dental Faculty Dean Matron Nurses Nursing MC Assoc. Registrar Dental Sisters Shift/ Store keeper</p> <p>4.2. Identify job description of each manager</p> <p>4.3. Prepare basic management skills</p> <p>4.4. Organize a workshop in management training</p> <p>4.5. Determine the importance of the concepts of management to all staff</p> <p>4.6. Monitoring and evaluation of management skills</p>	<p>Output 5</p> <p>5.1. Identify the means of Practitioner with regard to continuing education</p> <p>5.2. To organize upgrading course for General Dental Practitioners in General Dentistry</p> <p>5.3. To organize short courses in effective specialized techniques for specialized dentists</p> <p>5.4. Continuing education programme for consultant Dental Specialists</p> <p>5.5. Undertake training programme for practitioners</p> <p>5.6. Education programmes at Basic Dental Research for Junior Faculty Academic Staff</p> <p>5.7. Undertake continuing education programmes for Dental Chairside Assistants</p> <p>5.8. Undertake continuing education for Dental Technicians</p> <p>5.9. Undertake continuing education for Laboratory Technicians</p> <p>5.10. To plan educational programme for local (Part II) postgraduate</p>	<p>INPUTS</p> <p>JAPAN</p> <p>Expert Clinicians</p> <p>Equipment</p> <p>Training staff</p>	<p>INPUTS</p> <p>SRI LANKA</p> <p>Personnel/Trainers</p> <p>Materials/Consumables</p> <p>Finance for maintaining facilities</p>	<p>Committee of M.O.H. continues</p> <p>Trained staff will continue in the Faculty</p> <p>PREREQUISITE CONDITION</p> <p>New Dental Faculty/Hospital Complex built by Japanese Grant Aids completed and available</p>		

Annexure II

PROJECT	DESIGN	MATRIX	(P D M - 1997)
Project for the improvement	of Faculty of Dental	Sciences, University of	Peradeniya
Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal			
Promote prevention & treatment of oral disease	1.Reduce prevalence & treatment needs of oral diseases* 2. Type & distribution of dental services improved by year 2005 3 Employment patterns of dental surgeons improved by year 2005	1. Epidemiological & clinical records of Ministry of Health (MOH) and Dental Faculty (DF) 2. Statistics-MOH & DF 3. Man power reports- MOH	Commitment to improve the Dental Services including preventive aspects at a national level.
Project Purpose			
Quality of teaching and services improved in the DF	Educational inputs improved in 1998	1. Curriculum, clinical & laboratory records of the DF 1999 2. Assessment of teaching & patients care in 1999.	Regular admission of quality students
Outputs			
1. Modern & appropriate physical facility provided (1.1-1.13)**	a) Lecture/training space sq.ms 2934 (1994)- 3299(1998) b) Teaching staff space sq.m 125(1994)-1054(1998)	Final floor plans of the physical facility (1998)	a) Provision of adequate security & facilitate construction of the physical facility by the University b) New facility will attract more patients
2. Modern & appropriate equipment provided (2.1-2.5)**	a) 25 student/lab group 1994- 5 students/lab group 1998 b) Microscopes/dental chair/unit 8 student 1994- 1piece to 1 student 1998 c. Dental Hospital, in/out patients 45,000 1994- 105,000 (1999)	Records of teaching & service activities of DF (1999)	
3. Facilities for clinical research & teaching methodology provided (3.1-3.4)**	a) Research out put increased by 25%. b) No. of patients for Restorative/Prosthetics increased from 10,000 (1994) to 20,000 (1999) c) Histopathology reporting increased from 1000(1994) to 4000(1999) d) Total no. of clinical cases increased from 45,000 (1994) to 105,000(1999)	Departmental publications & DF statistics (1999)	a) Curriculum reform implemented b) Clinical & research facilities fully utilized
4) Additional training of faculty staff & Japanese expertise provided (4.1-4.3)**	Trained staff increased by 25% by year 2005	Personal information of DF staff (1998-2000)	Staff remain in service
5) Facilities for continuing education provided (5.1-5.9)**	100% continuing education programme by year 2005	Annual report of the DF (1997-2005)	Greater keenness for continuing education shown by dental surgeons
* Oral diseases- Dental caries, Periodontal diseases, Oral cancer & other Oral diseases	INPUTS		PRE-CONDITIONS Cooperation of the University, MOH & other related agencies to implement the Dental Faculty/Hospital Project
** details are given in the hand outs			

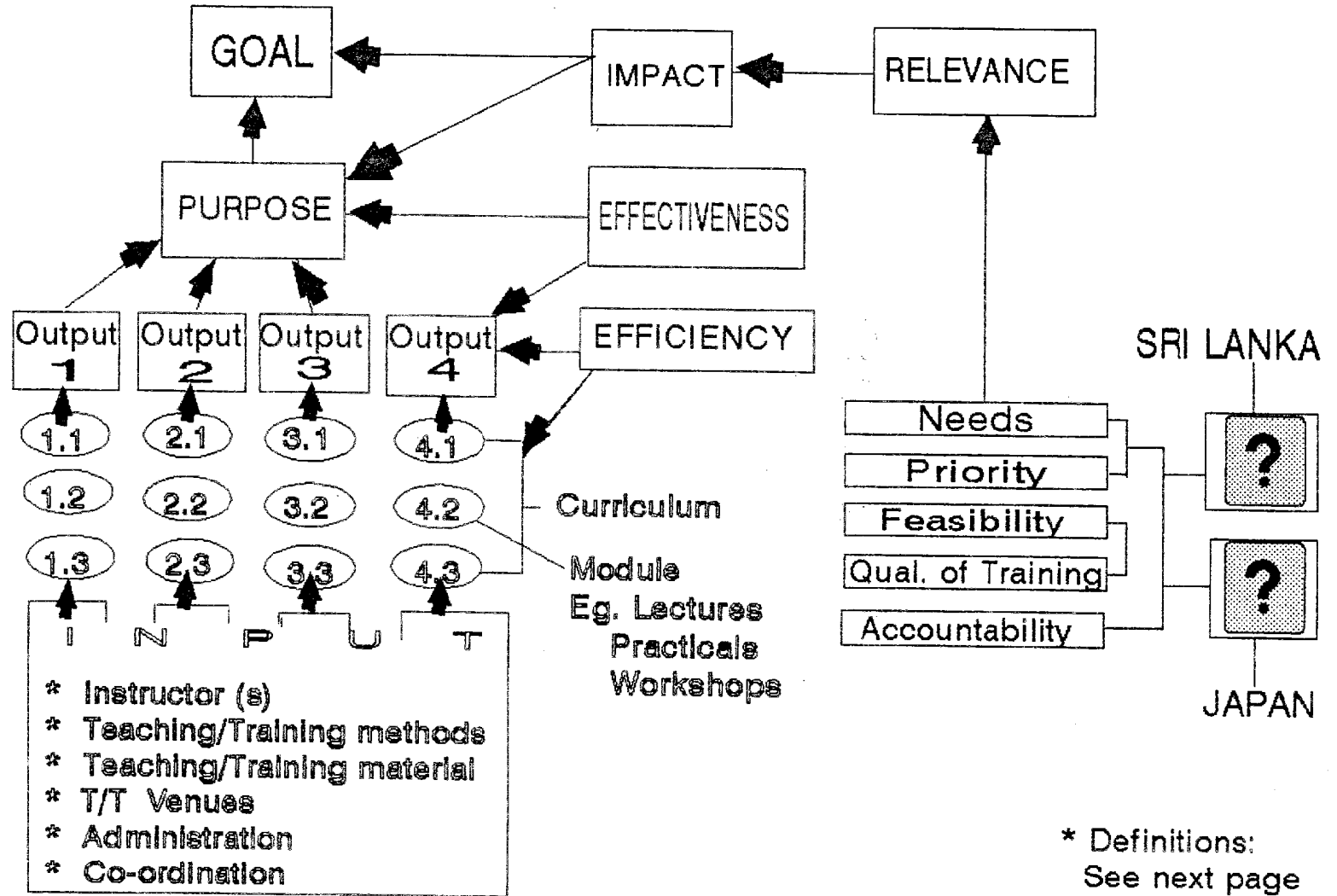
Annexure III

GROUPING OF DISCIPLINE FOR FUNCTIONAL CO-OPERATION



Annexure IV

STRATEGY OF DESIGNING THE TRAINING PROGRAMMES



STRATEGY OF DESIGNING THE TRAINING PROGRAMMES

