

Chapter 3 Implementation Plan

Chapter 3 Implementation Plan

3-1 Implementation Plan

3-1-1 Implementation Concept

(1) Project Implementation Procedure

The Project implementing body on the PA side is the College of Medicine, Al-Quds University. Following the signing of the Exchange of Notes (E/N) between the Governments of Japan and the PA, a Japanese consultant firm will sign a contract with the PA side to carry out the implementation design and management and execution of the Project. In addition, a Japanese trading firm, which will be placed under the supervision of the Japanese consultant firm, will sign a contract with the PA to carry out the delivery and installation of the equipment which will be provided by the Project.

After completion of this Project, the College of Medicine will manage operation and maintenance of the equipment as responsible agency.

(2) Project Implementation Policy

This Project will be implemented under the Japan's Grant Aid scheme. Hence the Project will be executed in accordance with that scheme as summarized below.

- 1) An adequate exchange of opinion will be carried out between the PA's project implementing body, the Japanese consultant firm, and the trading firm responsible for equipment delivery and installation and a close relationship between these three parties will be maintained in order to ensure that the Project is implemented uneventfully.
- 2) With the exception of equipment which will be delivered locally, the remainder of the equipment which will be provided by the Project will be subject to the import regulations of Israel (formal approval, pharmaceuticals, etc.) and these procedures must be sufficiently taken into account.

- 3) The party responsible for electricity, water supply, drainage and other utilities must be clearly designated in order to ensure that the Project is executed efficiently and uneventfully.
 - 4) Effort must be made to prevent accidents during the temporary storage of equipment and accessories, transport of equipment and materials, and the installation work.
- (3) Equipment that requires assembling and installation is included among the equipment that will be delivered through the Project. It is important for difficult handling equipment such as analysis equipment to prevent damage during installation and lowered efficiency due to inadequate assembling, and to ensure that the equipment is fully operational.

Guidance by Japanese engineers will be included in the Project plan during the unpacking, carrying in, the assembly and installation of the equipment, as well as preliminary test operations and adjustments, and explanations on specifications, maintenance and management of the equipment.

The equipment and field of specialty that will require the presence of engineers are as follows.

- 1) Science equipment : autoclave, distillator, centrifuge, fume hood, etc.
- 2) Analysis equipment : HPLC, blood gas analyzer, double beam spectrophotometer, atomic absorption, etc.
- 3) Others : photocopier, etc.

3-1-2 Implementation Conditions

- (1) The equipment that will be provided by this Project will be installed in the new building currently under construction for the College of Medicine by the PA side. Hence effort must be made to grasp the progress of the construction work in conjunction with this Project's implementation.
- (2) This Project is concerned with carrying in and installing the equipment in the new building of the College of Medicine. In view of the fact that the new building is located adjacent to the Faculty of Science and Technology, the construction work, the route by which the equipment is carried into the building, and other factors must be thoroughly studied in order to avoid

disrupting the daily education and research activities that will be going on simultaneously.

3-1-3 Scope of Works

The work demarcation for the implementation of this Project will be divided between the Japanese and the PA sides as shown below.

Table 9 Scope of Works

Scope of Work	Japan side	PA side
1 Securing of Project site		○
2 Construction work of College of Medicine, Al-Quds University		○
3 Payment of commissions to the Japan's bank for banking service based upon the B/A		○
4 Import / custom procedures		○
5 Arrangement for the stay, immigration procedures of Japanese nationals going in/out of PA in conjunction with project related work		○
6 Equipment -Equipment procurement -Marine transportation -Inland transportation -Installation work -Test operation and adjustment -Training work for operation	○ ○ ○ ○ ○ ○	
7 Responsibility for all permits/applications required for execution of work		○
8 Allotting of adequate budget and recruit of personals for effectively maintenance and operation		○
9 Execute appropriate and effective operation and management of the equipment under grant aid		○
10 Responsible for bearing the costs of all required expenditures not included in the grant aid such as construction of facilities, transportation and installation		○

3-1-4 Consultant Supervision

The basic policy and points to consider in the supervision of Project implementation are summarized below.

- 1) In order to ensure the uneventful delivery and installation of the equipment, the work of the Japanese consultant firm and the Project implementing body on the PA side will be closely coordinated. In particular, the responsibility of the PA side for the new building of the College of Medicine and for the respective utilities (electricity, tap water, drainage, etc.) that will be utilized

by the equipment will result in a conflict with the Project execution carried out by the Japanese side. Therefore, the period of project execution and the content must be thoroughly discussed between the two parties.

- 2) As mentioned above, the Project is responsible for installing the equipment in the new building of the College of Medicine under construction by the PA side. Therefore, the parties responsible for Project implementation will keep abreast of the progress in the construction work.
- 3) Prior to officially transferring the equipment to the PA side, an inspection will be carried out to ensure that the delivered equipment satisfy design specifications. In the event the equipment does not meet the specifications and requires an exchange or if an exchange of damaged parts or accessories, etc. is required, the trading firm will be instructed to take the appropriate measures.

3-1-5 Procurement Plan

(1) Equipment Procurement

Of the equipment that will be provided by this Project, there is no item of equipment that is manufactured in the PA and all equipment is manufactured in Japan or the OECD countries. However, several branch offices of the manufacturers of the educational and medical equipment that will be provided by this Project exist in the PA and the products are in constant distribution. Moreover, it has been concluded that the supply of consumables and equipment repair as well as after service will not be an issue.

Therefore, the following points of consideration and a review of the local procurement of equipment based on the consideration that Japanese products and third countries' products can be procured from the local branch offices as shown in the table below.

Table 10 Consideration Point of Local Procurement

Consideration Point
(1) Necessary equipment to purchase consumable and spare parts periodically
(2) No guarantee for maintenance by Japan's manufacturer
(3) Necessary equipment for maintenance contract with local agent
(4) Ordinary use equipment in existing training hospitals
(5) Third country products same as Japan made quality in local market

Audio visual equipment, laboratory equipment, relatively high quality basic medical equipment, etc. which do not require special maintenance or consumables will be reviewed for procurement from Japan.

(2) Consumables and Spare Parts

Consumables should be purchased at the most optimum time and should avoid hindering the start of the courses. Therefore, in view of the fact that the time frame of this Project is one academic year, spare parts and consumables for one academic year will be provided according to category and frequency of use. However, provision will be made for only one time use for consumables such as reagents where the expiration period is less than one year.

3-1-6 Implementation Schedule

Following the signing of the E/N (Exchange of Notes) by both the governments of Japan and the PA, tender documents will be prepared, and tendering and the signing of contracts on equipment procurement and installation will be carried out in accordance with the Japan's Grant Aid scheme.

The implementation schedule will be carried out according to the following procedures.

(1) Confirming Project Content and Preparing Tender Documents

Based on the Basic Design Study Report, the final Project content will be confirmed, and the tender documents will be completed. The document on equipment specifications will be reviewed to determine whether the equipment is still manufactured and to correlate its content with any changes in the PA side and it will be subject to revision as needed. The implementation period is projected to be 1.7 months.

(2) Tendering

Following the completion of the above procedure, a confirmation of the progress and conditions of demarcation works by the PA side will be conducted at the Project site. Following this confirmation, tendering activities for the procurement and installation of the equipment for the Project will be carried out in Japan. An announcement for interested tenderers will

be made in the newspapers and general competitive tendering will be conducted with tenderers in attendance. The period required for these activities is expected to take 1.5 months.

(3) Equipment Procurement and Installation

Following the signing of the contract for equipment procurement and installation, the procurement and manufacture of the equipment will begin in accordance with the contents of the contract and with the approval of the Government of Japan. The period required to execute the work is estimated to be 8.5 months. The schedule of the Project implementation is shown in below.

Table 11 Project Implementation Schedule

Month	1	2	3	4	5	6	7	8	9	10	11	12
Confirming Project Content and Preparing Tender Documents	(Site Survey)	(Preparation of Tender Documents)	(Approval of Tender Documents)	(Tendering)								
										Total = 3.2 months		
Month	1	2	3	4	5	6	7	8	9	10	11	12
Procurement	(Ordering and Manufacturing)							(Transportation)				
									(Delivery and Installation)			
										Total = 8.5 months		

3-1-7 Obligation of the PA Side

The items which the PA side will be responsible for in the implementation of the Project are shown below. It is important that these items are implemented within the specified period of time.

(1) Construction of the Building for the College of Medicine

The construction schedule of the new building of the College of Medicine which was obtained at the Project site is shown below.

Table 12 Construction Schedule of the College of Medicine

Work Item	1998				1999												2000		
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Flame Work																			
Brick Work																			
Metal Work																			
Mortar Work																			
Floor Finishing Work																			
Wood Work																			
Electric Work																			
Sanitary and Heating Work																			
Window Work																			
Painting Work																			
Excavation Work																			
Handing Over																			

Source : Jerusalem Design Center

(2) Utilities

The installation of utilities such as electricity, water supply, drainage, etc. that are required for the equipment that will be provided by the Project will be made in the new building.

(3) Procurement of Equipment by the PA Side

Equipment such as experiment tables, desks, chairs, etc. has not been included in this Project. Therefore, such equipment as the experiment tables, desks, etc. that will be needed at the time the Project equipment is installed, will be supplied by the PA side.

(4) Authorization

Among the equipment that will be delivered to the PA, there is medical equipment that must be registered with the Ministry of Health. Therefore, the PA side will be responsible for carrying out these registration procedures when the equipment is shipped.

(5) Exemption of Custom Duties

Equipment that will be procured in Japan for the Project will be unloaded in Israel. There is an agreement between Israel and the PA on the exemption of custom duties for assistance commodities earmarked for the PA and tax exemption measures on custom duties. Therefore, the PA side will be

responsible for obtaining these tax exemption measures for the Project equipment during the marine transportation period.

(6) Banking Arrangements with a Japanese Bank

Banking arrangements will be made promptly during the Project implementation phase and the payment authorization document will be issued.

3-2 Project Cost Estimation

(1) Financial Responsibility of the PA Side

It is estimated that the project cost for the PA side is US\$ 50,130 (6.5 million yen), if the project is implemented under Japan's Grant Aid. A cost breakdown is given below.

1) Equipment (laboratory table, desks, chairs, etc)	US\$29,400	(3.8 million yen)
2) Computer table and chairs	US\$3,410	(0.4 million yen)
3) Desks	US\$10,400	(1.4 million yen)
4) Bank handling fee	US\$6,920	(0.9 million yen)

3-3 Operation and Maintenance Costs

(1) Maintenance System

The maintenance of the equipment provided by this Project will be carried out by a college member of each course who is familiar with the equipment or who has obtained a medical license. The maintenance of equipment such as analyzers will be carried out in coordination with the College of Medicine by a faculty member of the adjacent the Faculty of Science and Technology who has sufficient knowledge of the equipment.

In addition, a faculty member of the Faculty of Science and Technology will be in charge of basic science equipment, therefore, it has been concluded that

there is no problem in terms of experience, knowledge, of the equipment, etc.

(2) Maintenance Costs

Equipment which is anticipated to generate maintenance costs are audio visual equipment, computers, analysis equipment, etc. (manikin, glass ware are excluded). The cost of consumables, spare parts and repair are shown in the table below.

Table 13 Operation and Maintenance Cost of the Equipment

Item	Cost
Electricity	Load x Demand ratio x Average hours x Number of days per month x Electricity charge x Total months 70 kw x 0.3 x 2 hr/day x 20 days x 1.3 NIS x 10 months = 11,000 NIS (US\$ 2,500)
Water	Volume per day x Number of days per month x Water charge x Total month 7 m ³ x 20 days x 3.7 NIS x 10 = 5,200 NIS (US\$ 1,200)
Spare parts and Consumables	Audio Visual US\$ 1,200 (Bulb, Toner, etc.)
	Computer US\$ 800 (Toner, etc.)
	Analyser US\$ 61,500 (Reagent and chemicals, Filter, etc.)
	Sub Total US\$ 63,500
Grand Total	US\$ 67,200

In addition, the major maintenance costs generated by the new building currently under construction are anticipated to be electricity and water utility costs.

The annual maintenance costs of the new building are shown in the table below.

Table 14 Annual Operation and Maintenance Costs of the New Building

Item	Cost
Electricity	Load x Demand ratio x Average hours x Number of days per month x Electricity charge x Total months 300kw x 0.7 x 2hr/day x 20 days x 1.3 NIS x 10 months = 436,800 NIS (US\$ 101,300)
Water	Volume per day x Number of days per month x Water charge x Total month 10 m ³ x 20 days x 3.7NIS x 10 = 7,400NIS (US\$ 1,700)
Grand Total	444,200 NIS (US\$ 103,000)

The operation and maintenance costs have increased in correlation with the rise in college members and students since the establishment of the College

of Medicine in 1994. Approximately US\$72,315 was allocated in 1997/1998 or quadruple the amount allocated in 1994. The 1999/2000 budget will allocate US\$4,381,198 for operation and maintenance costs and the added operation and maintenance costs stemming from the new building and the equipment provided by this Project will be amply covered within this amount.

In addition, the College of Medicine plans to secure a budget based on student tuition similarly to other faculties. The Ministry of Higher Education will also provide overall assistance for the PA's sole College of Medicine and no problems in the area of maintenance costs are foreseen.

In addition, the increased electricity volume is anticipated at 70KVA. The electricity capacity of the new building is 300KVA. In contrast, the existing the Faculty of Science and Technology which consumes a large amount of electricity in its electronic and computer training courses is managing on 230KVA. Therefore, no problems are foreseen in the increased consumption of electricity.

Chapter 4 Project Evaluation and Recommendation

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4-1 Project Effect

4-1-1 Project Effect

(1) Impact on College Members and Students

The following direct benefits for the 420 students and 45 college members are anticipated if this Project is implemented.

1) Comprehensive Medical Education in Terms of Quality and Content

Due to the lack of educational equipment needed to carry out practice and training, it has presently been difficult to implement practical medical education. As a result, the practical and training activities comprise only 20 percent of all courses conducted in the third to fourth year basic medical education curriculum. Of the 20 percent that are conducted, the educational content has been forced to remain at a demonstration level due to the lack of equipment rather than one of practical application.

Following the provision of the required equipment, the ratio of time spent on practical and training activities is anticipated to consist of about 50 percent of the total class time. In addition, it will enable the quality and content of the curriculum to improve with the advent of practice and training needed in medical education.

2) Expanded Hospital Training Benefit

Since the course content will enable students to efficiently transfer into the hospital training program, the introductory stage of the practice and training at the training hospital will become easier and the benefits and proficiency level of the training content are anticipated to expand.

In addition, undue loss or damage to hospital equipment and patient specimens will be prevented due to the dissemination of basic knowledge on health and analysis equipment in the College of Medicine.

3) Consolidated Student Research

At the end of the term, all second and fourth year medical students are required to participate in a six-week field work course (5 credit hours) and sixth year students are required to participate in a one-year community work program. Students learn how to collect precision scientific data of research projects, to expand the volume and scope of data management, to improve the efficiency of the analytical process, to consolidate the content, and quality of data.

(2) Improving Health Environment in the PA

Due to its hitherto situation under Israeli occupation, the PA faces various problems such as regional health care disparities, unequal technological levels, limited scope of health care services, a shortage of physicians, etc. In particular, a plan to increase the number of physicians at PHC facilities from 910 in 1992 to 1,229 by 2002 is an important measure.

With the implementation of this Project, approximately 60 medical students will graduate annually from the College of Medicine and they are anticipated to work as physicians. Placing these graduates in various regions throughout the PA will improve the health environment of the entire the PA in future (beneficiary population in the Gaza and West Bank is about 2,270,000).

4-1-2 Appropriateness of the Project

Due to its situation under Israeli occupation, the PA faces various problems such as regional disparities, a shortage of health care personnel, etc. in the health care sector and the number of physicians is low in comparison to its neighboring countries. Consequently, the fostering of physicians is desired. The Al-Quds University which is targeted by this Project, is the PA's sole institute of higher education dedicated to fostering physicians and it is expected to play a major role in improving the health care conditions of the PA. However, the College of Medicine was only established in 1994, despite the new building under construction at present, the lack of practical and training equipment needed in basic medical education for the third year curriculum. Therefore, the College of Medicine has forced to rely on lectures.

This Project aims to establish a system of medical education and to strengthen and improve its quality by providing the educational equipment which it lacks, in accordance with the curriculum offered by the College, the number of students, college members, and other factors. Further, the project will contribute to an improved health care system of the PA by providing a stable means of fostering physicians through medical education.

The significance of implementing this Project through Japan's Grant Aid is explained below and based on the reasons provided below, it has been concluded that the Project is fully appropriate.

(1) Improving Health Education and Health Care Conditions

The equipment which will be provided by this Project will improve the quality and content of medical education for the 45 college members and the 420 medical students who are the direct beneficiaries of this Project. In addition, the impact of the training program at the training hospital will rise, due to the practical education which will be made possible with the use of the equipment provided for the medical education. A stable, planned means of fostering sorely needed PHC level physicians will become available and the Project will help realize the "National Health Plan for the Palestinian People" formulated by the PA.

(2) Appropriateness of the Capacity to Receive Assistance

Presently, the members of the College of Medicine have acquired their medical degrees and licenses abroad. Consequently, they possess a high level of knowledge and technical skills and are fully capable of operating the equipment which will be provided by the Project. Further, the students who have the passed strict testing system are endowed with high capabilities and standards. Therefore, both the college members and the students are sufficiently capable of utilizing the practical and training equipment that will be provided and a high educational impact is anticipated.

(3) Managing the College of Medicine

Presently, an operation and maintenance system within the College of Medicine is nonexistent due to the lack of practical and training equipment. However, following the provision of equipment by this Project, a plan to

recruit maintenance personnel and to establish a joint system of maintenance and management of the equipment with the Faculty of Science and Technology is being devised. Therefore, it has been concluded that an adequate operation and maintenance system for the equipment will be established to ensure the sustained use of the equipment.

4-2 Recommendation

The objective of this Project is to establish a system of medical education within the College of Medicine and to strengthen and improve the quality of medical education by providing educational equipment that the college lacks. Furthermore, the Project will contribute to an improved health care system within the PA by providing a stable means of fostering needed physicians through medical education. Therefore, it has been concluded that it is extremely valid to implement this Project through Japan's Grant Aid cooperation. However, in order to implement this Project efficiently and effectively, the following issues must be addressed.

(1) Procure a Budget

An adequate budget to implement this Project has not been procured by the College of Medicine. However, currently the PA is in the midst of establishing a new nation and organizations, systems, etc. are in flux. In addition, it is anticipated that measures to procure budgetary capital for each organization will be in a state of constant change.

Therefore, the Ministry of Higher Education, Al-Quds University, and the College of Medicine which are the implementing bodies of this Project will be required to cover the maintenance and personnel costs, etc.

(2) Establishing Syllabus

Presently, the College of Medicine has been forced to focus its course content on lectures due to the lack of practical and training equipment. However, following the implementation of this Project, it will be necessary to promptly revise the current syllabus and shift its focus on practice and training activities, since the equipment provided by the Project will enable such activities to be implemented.

(3) Need for Monitoring

In order to ascertain the impact of the Project following its implementation and to clarify the issues, the use of the equipment, operation and maintenance conditions, the operation and maintenance system, budgetary measures, etc. of the College of Medicine will be monitored. The results will be collected by the College and utilized as data for self-analysis.

In addition, in order to improve the operation and maintenance capabilities of the equipment on a daily basis, detailed records on its use and its operation and maintenance should be maintained on major equipment items and effort must be made to prevent serious accidents and damage.

(4) Securing Staff Members

The maintenance of the equipment that will be provided by the Project will be maintained by maintenance staffs of adjacent the Faculty of Science and Technology. In order to ensure the proper maintenance and use of the equipment, a maintenance system must be created and maintenance personnel must be secured. In addition, college staff members who will be actually conducting the sessions must be secured.

In addition, a technical training course for operation and maintenance personnel to improve the technical skills relevant to the operation and maintenance of the equipment is needed. Furthermore, the college members will be required to improve their technical and investigative research skills on a daily basis in order to effectively utilize the equipment in their courses.

(5) Maintenance Agreement

It is recommended that a segment of the equipment such as the analysis equipment that will be provided by the Project is placed under a maintenance agreement with the local service agents, in order to ensure its continuous use through appropriate maintenance service. Therefore, in order to guarantee optimum maintenance of the equipment, a maintenance agreement should be signed as soon as possible.

Appendices

Appendices 1 Members List of the Study Team

1. Basic Design Study

Name	Position	Organization
(1) Mr. Tomiaki ITO	Team leader	Deputy Director, 1st Project Study Div., Grant Aid Project Study Dept., JICA
(2) Dr. Kozo TAKASE	Technical adviser	Dept. of Medical Informatics, Tokyo Medical and Dental University
(3) Dr. Satoshi KIMURA	Technical adviser	Dept. of Clinical Pathology, Showa University School of Medicine
(4) Mr. Hiroshi ABO	Project Manager/ Planning for Medical Education	System Science Consultants Inc.
(5) Mr. Katsuo Tateno	Equipment Planner 1	System Science Consultants Inc.
(6) Ms. Keiko NAMIKI	Equipment Planner 2	System Science Consultants Inc.
(7) Mr. Hiroshi KISHIMOTO	Facility Planner	System Science Consultants Inc.
(8) Mr. Toshiharu HATA	Cost and Procurement Planner	System Science Consultants Inc.

2. Explanation of Draft Basic Design

Name	Position	Organization
(1) Mr. Toshiyuki IWAMA	Team leader	Deputy Director, 1st Project Study Div., Grant Aid Project Study Dept., JICA
(2) Dr. Kozo TAKASE	Technical adviser	Dept. of Medical Informatics, Tokyo Medical and Dental University
(3) Mr. Hiroshi ABO	Project Manager/ Planning for Medical Education	System Science Consultants Inc.
(4) Mr. Katsuo Tateno	Equipment Planner I	System Science Consultants Inc.
(5) Mr. Toshiharu HATA	Cost and Procurement Planner	System Science Consultants Inc.

Appendices 2. Survey Schedule

1. Basic Design Study

Date	Government Official	Project Manager/ Planning for Medical Education	Equipment Planner 1	Equipment Planner 2	Facility Planner	Cost and Procurement Planner
3 Sep	Thu	Narita → Paris	••	••	••	
4 Sep	Fri	Paris → Tel Aviv, Courtesy call to Embassy of Japan (EOJ) and JICA	••	••	••	
5 Sep	Sat	Tel Aviv → Gaza, Courtesy call to MOHIC, Gaza → Jerusalem	••	••	••	
6 Sep	Sun	Courtesy call to Ministry of High Education (MOHE), Explanation of Inception Report and Discussion, Courtesy call to the College of Medicine, Al Quds University (COM) and Discussion	••	••	••	
7 Sep	Mon	Survey of Training Hospitals (Makassed Hospital, Victoria Hospital)	••	••	••	
8 Sep	Tue	Discussion with COM, Team Meeting	••	••	••	
9 Sep	Wed	Discussion with COM	••	••	••	
10 Sep	Thu	Discussion with MOHE, Signing for Minutes of Meeting with MOHE, Jerusalem → Tel Aviv, Report for EOJ and JICA	Discussion with MOHE, Signing for Minutes of Meeting with MOHE	Discussion with MOHE, Signing for Minutes of Meeting with MOHE	Discussion with MOHE, Signing for Minutes of Meeting with MOHE, Jerusalem → Tel Aviv, Report for EOJ and JICA	
11 Sep	Fri	Leave for Tokyo	••	••	••	
12 Sep	Sat	Tel Aviv → Copenhagen →	Site Survey and Discussion with COM	Site Survey and Discussion with COM	Discussion with Construction Company and Design Office (Construction Design)	
13 Sep	Sun	Narita	Ditto	Ditto	Construction Material Survey	
14 Sep	Mon		Discussion with Committee	Ditto	Discussion with Committee	Ditto
15 Sep	Tue		Discussion with COM	Ditto	Site Survey and Discussion with COM	Construction Company Survey
16 Sep	Wed		dito	Ditto	Ditto	Electric Company Survey
17 Sep	Thu		Data Arrangement, Team Meeting	Data Arrangement, Team Meeting	Data Arrangement, Team Meeting	Water Company Survey
18 Sep	Fri		dito	Ditto	Ditto	Data Arrangement, Team Meeting
19 Sep	Sat		Discussion with the Committee	Site Survey and Discussion with COM	Site Survey and Discussion with COM	Site Survey (Necessary measurements by recipient side)
20 Sep	Sun		Discussion with COM	Ditto	Ditto	Tel Aviv → Paris
21 Sep	Mon		dito	Ditto	Ditto	Paris →
22 Sep	Tue		Discussion with Committee	Ditto	Ditto	Narita
23 Sep	Wed		Discussion with COM	Ditto	Ditto	Collection of Questionnaires
24 Sep	Thu		Discussion with EOJ, JICA	Examination of Data	Examination of Data	Port Data Survey
25 Sep	Fri		Data Arrangement, Team Meeting	Ditto	Ditto	Analysis of Questionnaires
26 Sep	Sat		Discussion with COM	Examination of Equipment Specifications	Examination of Equipment Specifications	Transportation and Import Company Survey
27 Sep	Sun		dito	Ditto	Ditto	Preparation Work for Procurement Plan
28 Sep	Mon		dito	Ditto	Ditto	Preparation Work for Implement Plan
29 Sep	Tue		Discussion with EU, MOHE and Ministry of Civil Affairs	Ditto	••	Discussion with EU, MOHE and Ministry of Civil Affairs
30 Sep	Wed		Discussion with COM, Survey of Hospital Training (Makassed Hospital)	Ditto	Survey of Hospital Training (Makassed Hospital)	Survey of Hospital Training (Makassed Hospital)
1 Oct	Thu		Jerusalem → Gaza, Discussion with MOPIC, UNSCO	Data Arrangement, Team Meeting	Data Arrangement, Team Meeting	Jerusalem → Gaza, Discussion with MOPIC, UNSCO
2 Oct	Fri		Data Arrangement, Team Meeting	Ditto	Ditto	Data Arrangement, Team Meeting
3 Oct	Sat		Discussion with Committee	Discussion on Equipment Specifications with COM	Discussion on Equipment Specifications with COM	Supplement Survey
4 Oct	Sun		Discussion with Committee, Ministry of Health	Discussion with Committee	Tel Aviv → Paris	Discussion with Committee
5 Oct	Mon		Discussion with MOHE, Survey of Health Profession College	Ditto	Paris →	Water Company Survey
6 Oct	Tue		Discussion with Committee	Ditto	Narita	Discussion with COM
7 Oct	Wed		Report to MOHE, Discussion with JICA	Ditto		Discussion with Committee
8 Oct	Thu		Jerusalem → Tel Aviv	••		••
9 Oct	Fri		Report to EOJ and JICA	••		••
10 Oct	Sat		Tel Aviv → Paris	••		••
11 Oct	Sun		Paris →	••		••
12 Oct	Mon		Narita	••		••

2. Explanation of Draft Basic Design

Date			Government Official	Project Manager Planning for Medical Education	Equipment Planner I	Cost & Procurement Planner
1	30-Nov	Mon.		Narita → Frankfurt	←	←
2	1-Dec	Tue.		Frankfurt → Tel Aviv Courtesy call to EOJ and JICA	←	←
3	2-Dec	Wed.		Courtesy call to Ministry of Higher Education, Al-Quds University and College of Medicine, Meeting with Ministry of Higher Education and Committee (Explanation of D-B/D report)	←	←
4	3-Dec	Thu.		Courtesy call to Ministry of Planning and International Cooperation, Explanation of D-B/D report and discussions	←	←
5	4-Dec	Fri.		Data arrangement	←	←
6	5-Dec	Sat.		Meeting with College of Medicine & Committee	←	←
7	6-Dec	Sun.		Meeting with College of Medicine & Committee	←	←
8	7-Dec	Mon.	Narita → Zurich	Meeting with College of Medicine & Committee	←	←
9	8-Dec	Tue.	Zurich → Tel Aviv, Courtesy call to EOJ and JICA, and discussions, Team meeting	Meeting with College of Medicine & Committee Jerusalem → Tel Aviv Discussions with EOJ & JICA, Team meeting	Meeting with College of Medicine & Committee	←
10	9-Dec	Wed.	Tel Aviv → Gaza, Courtesy call to MOPIC, Gaza → Jerusalem, Meeting with Ministry of Higher Education, Team meeting	←	Meeting with College of Medicine & Committee, Meeting with Ministry of Higher Education, Team meeting	←
11	10-Dec	Tu.	Meeting with College of Medicine & Committee	←	←	←
12	11-Dec	Fri.	Data arrangement Team meeting	←	←	←
13	12-Dec	Sat.	Meeting with College of Medicine and Committee, Jerusalem → Gaza, Meeting with MOPIC, Gaza → Jerusalem	Meeting with College of Medicine and Committee	←	←
14	13-Dec	Sun.	Meeting with College of Medicine and Committee	←	←	←
15	14-Dec	Mon.	Meeting with College of Medicine and Committee	←	←	←
16	15-Dec	Tue.	Signing of Minutes of Discussions, Report to EOJ and JICA (Team Reader) Tel Aviv → Frankfurt (Technical Advisor) Tel Aviv → Vienna → (Team Reader)	Signing of Minutes of Discussions, Meeting with College of Medicine and concerned staffs	←	←
17	16-Dec	Wed.	Frankfurt → (Technical Advisor) Narita	Meeting with College of Medicine and Committee	←	←
18	17-Dec	Tu.	(Team Reader) Narita	Data arrangement	←	←
19	18-Dec	Fri.		Data arrangement, Team meeting	←	←
20	19-Dec	Sat.		Meeting with College of Medicine and Committee	←	←
21	20-Dec	Sun.		Meeting with College of Medicine and Committee	←	←
22	21-Dec	Mon.		Meeting with College of Medicine and Committee, Report to Ministry of Higher Education	←	←
23	22-Dec	Tue.		Report to EOJ and JICA, Tel Aviv → Frankfurt	←	←
24	23-Dec	Wed.		Frankfurt →	←	←
25	24-Dec	Thu.		Narita	←	←

Appendices 3 List of Party Concerned in the Recipient

I. Basic Design Study

1. Ministry of Planning & International Cooperation (MOPIC)

Mr. Walced A. Siam	Director General
Mr. Yassir M. Najjar	Director Project Formulation & Monitoring Dept.

2. Ministry of Health

Dr. Munther Sharif	Deputy Minister
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3. Ministry of Civil Affairs

Mr. Sabri Hamad	Department of Tax Exemption
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4. Ministry of Higher Education (MOHE)

Mr. Hisham Kuhail	Deputy Minister, Ministry of Higher Education
Dr. Lily Feidy	Director General, International & Cultural Relations
Ms. Ruba Ibrahim	Director, International & Cultural Relations

5. Administration, Al-Quds University

Dr. Sari Nuseibeh	President of the University
Dr. Tawfik Abu Shakhshir	Vice President of the University
Dr. Khalid Kanem	Vice President of the University (Academic Affair)
Dr. Khuloud Khayyat Dajani	Director, International Co-operation Dept.

6. Committee Member, Al-Quds University

Dr. Ziad Abdeen	Executive Director of Faculty of Medicine *
	Dean of Scientific Research (Chairman)
Dr. Akram Kharubi	Dean of College of Health Professions *
Dr. Adnan Manassra	Dean of Faculty of Science and Technology
Dr. Ibrahim Kayyali	Faculty Member / College of Science and Technology *
Dr. Hisham Darwish	Faculty Member / College of Medicine *
Dr. Abdul-Salam Abdul-Ghani	Professor / Physiology, Faculty of Medicine*
	Professor of Medical Research Center

* : serves concurrently as other organization

7. Faculty of Medicine, Al-Quds University

Dr. Nael Shihabi	Dean for Faculty of Medicine
Dr. Ziad Abdeen	Executive Director of Faculty of Medicine*
Dr. Shukri El-Khatib	Professor/Biochemistry (Assistant Dean for Admission & Student affair)
Dr. Yacob Irshaid	Pharmacology & Therapeutics (Assistant Dean for Pre-Clinical Studies)
Dr. Kurt Ahren	Professor / Physiology
Dr. Gerard Slavin	Professor / Pathology
Dr. Berinda Slavin	Professor / Clinical Pathology
Dr. Maher Zughair	Assistant Professor / Pathology
Dr. Hisham Darwish	Assistant Professor / Biochemistry *
Dr. Dina M. Bitar	Assistant Professor / Microbiology
Dr. Ghassan Abu Hijleh	Assistant Professor / Anatomy
Dr. Jalal M. Al-Jaberi	Assistant Professor / Forensic Medicine
Dr. Abdul-Salam Abudul-Ghani	Professor / Physiology *
Ms. Ola Dajani	Secretary
Ms. Dawlat Nashashibi	Secretary
Mr. Wael Abu Niem	Clark

8. Faculty of Science and Technology, Al-Quds University

Dr. Adnan Manassra	Dean of Faculty of Science and Technology*
Dr. Ibrahim Kayyali	Chairman of Chemistry Department *
Dr. Saleh Abulafim	Analytical Chemistry
Dr. Omar Deeb	Pharmaceutical Chemistry
Dr. Amin Leghrout	Head of the Physics Department
Dr. Sager Darwish	Associate Professor, Dept. of Physics
Dr. Khaled Salem	Chairman of Life Science (Biology) Department
Dr. Abed Al-Sharif	Coordinator of Biochemistry and Molecular Biology
Dr. Harunm Khanfar	Life Sciences (Biology)
Dr. Massouna Wael	Computer Engineering
Dr. Badie Sartawi	Computer Science

9. College of Arab Health Professions

Mr. Samear Barghouthi	Head, Dept. of Medical Technology, Assor. Prof. of Microbiology & Genetics
Ms. Randa Nasser	Nurse Assistant Prof., Sociology
Ms. Sumaya Sayej	Head, Dept. of Nursing

Ms. Asme Imam	Coordinator of Graduate Studies
Mr. Mustafa Aweiss,	Director of Medical Imagery Dept.

10. Faculty of Science, Al-Azhar University of Gaza Strip

Dr. Issa M. El-Nahhal	Dean of Postgraduate Study
Mr. Mazen Hamada	President Office Director
Dr. Shehata M. Zourab	Professor / Chemistry
Mr. Emad A. Al-Nounai	Head of Electronic maintenance

11. Der Al-Balar Palestine Technical College (Gaza Strip)

Mr. Hisham Abu Sido	Dean of the College
Mr. Hemaïd Mahdi	Deputy Dean
Mr. Wasim Al-Habil	Public Relation Director

12. Makassed Islamic Charitable Hospital

Dr. Arafat Salem Hidmi	Chairman, Board of Directors
Dr. Rostom Al-Nammari	Director
Dr. Tareq Barakat	Hospital Administer

13. Victoria Augusta Hospital

Dr. Hani Abdeen	Director of Clinical Services
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14. European Union (EU)

Dr. Khalil Nakhpeh	Expert for Education Sector
Ms. Cathy Gritzner	Expert for Health Sector

15. United Nations Special Coordination in the Occupied Territories (UNSCO)

Ms. Marina Throne - Holts	Donor Coordination Unit
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16. Embassy of Japan

Mr. Katsuyoshi HAYASHI	Councilor
Mr. Kohei SATO	Second Secretary

17. JICA Palestine Office

Mr. Shigeru OKAMOTO	Resident Representative
Mr. Toshiya ABE	Assistant Resident Representative
Mr. Iyas Abu Hajjar	Local Staff

II. Explanation of Draft Basic Design

1. Ministry of Planning & International Cooperation (MOPIC)

Mr. Yassir M. Najjar Director Project Formulation & Monitoring Dept.

2. Ministry of Higher Education (MOHE)

Mr. Hisham Kuhail Deputy Minister, Ministry of Higher Education

3. Committee Member, Al-Quds University

Dr. Ziad Abdeen	Executive Director of Faculty of Medicine *
	Dean of Scientific Research (Chairman)
Dr. Akram Kharubi	Dean of College of Health Professions *
Dr. Adnan Manassra	Dean of Faculty of Science and Technology
Dr. Ibrahim Kayyali	Faculty Member / College of Science and Technology *
Dr. Hisham Darwish	Faculty Member / College of Medicine *
Dr. Abdul-Salam Abdul-Ghani	Professor / Physiology, Faculty of Medicine*
	Professor of Medical Research Center

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Mr. Katsuyoshi HAYASHI	Councilor
Mr. Kohei SATO	Second Secretary

5. JICA Palestine Office

Mr. Shigeru OKAMOTO	Resident Representative
Mr. Toshiya ABE	Assistant Resident Representative
Mr. Iyas Abu Hajjar	Local Staff

1. Basic Design Study

**MINUTES OF DISCUSSIONS
ON THE BASIC DESIGN STUDY
ON THE PROJECT FOR SUPPLY OF EQUIPMENT
FOR COLLEGE OF MEDICINE, AL-QUDS UNIVERSITY
IN THE PALESTINIAN INTERIM SELF-GOVERNMENT AUTHORITY**

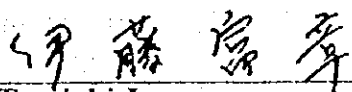
In response to the request from the Palestinian Interim Self-Government Authority (hereinafter referred to as "PA"), the Government of Japan decided to conduct a Basic Design Study on the Project for Supply of Equipment for College of Medicine, Al-Quds University in PA (hereinafter referred to as "the Project"), and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to PA a study team (hereinafter referred to as "the Team"), which is headed by Mr. Tomiaki ITO, Deputy Director, First Project Study Division, Grant Aid Project Study Department, JICA, and is scheduled to stay in the PA from September 4 to October 10, 1998.

The Team held discussions with officials concerned of the PA and conducted field surveys of the college concerned.

In the course of the discussions and field surveys, both parties have confirmed the main items described on the attached sheets. The Team will proceed to further work and prepare the Basic Design Study Report.

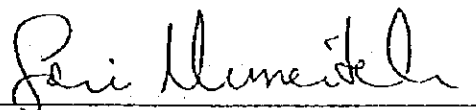
Ramallah, September 10, 1998



Mr. Tomiaki Ito
Leader,
Basic Design Study Team, JICA

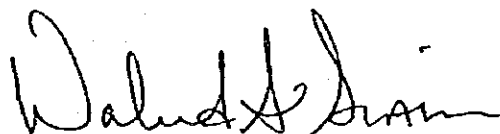


Dr. Munther Salah
Minister of Higher Education
Palestinian Interim Self-Government
Authority



Dr. Sari Nusseibeh
President of Al-Quds University

(Witness)



Mr. Waleed A. Siam
Director General / International Cooperation
Ministry of Planning and International Cooperation

ATTACHMENT

1. Objective

The objective of the Project is to provide adequate medical training for all students of College of Medicine, Al-Quds University (hereinafter referred to as "the College") through procurement of necessary equipment.

2. Project Site

The College of Medicine, Al-Quds University (See ANNEX 1)

3. Responsible and Executing Organization.

- | | |
|------------------------------|--|
| (1) Coordinate Organization | : The Ministry of Planning and International Cooperation |
| (2) Responsible Organization | : The Ministry of Higher Education |
| (3) Executing Organization | : The College of Medicine, Al-Quds University |

4. Items requested by the PA.

The procurement of the Equipment for the Faculty of Medicine described in ANNEX 2 is requested by the PA for the consideration by the Government of Japan to be provided under the Grand Aid.

The equipment list will be prepared by the Team of Consultants and the committee from Al-Quds university by September 30, 1998, based on the list attached to the official request of June 1998.

The requested items shall be re-examined and referred to on finalizing the Basic Design Study Report.

5. Japan's Grant Aid System

- (1) The PA has understood Japan's Grant Aid System in ANNEX 3 as explained by the Team.
- (2) The PA will take necessary measures described in ANNEX 4 for smooth implementation of the Project, in the event the Grant Aid Assistance by the Government of Japan is extended to the Project.

6. Schedule of the Study

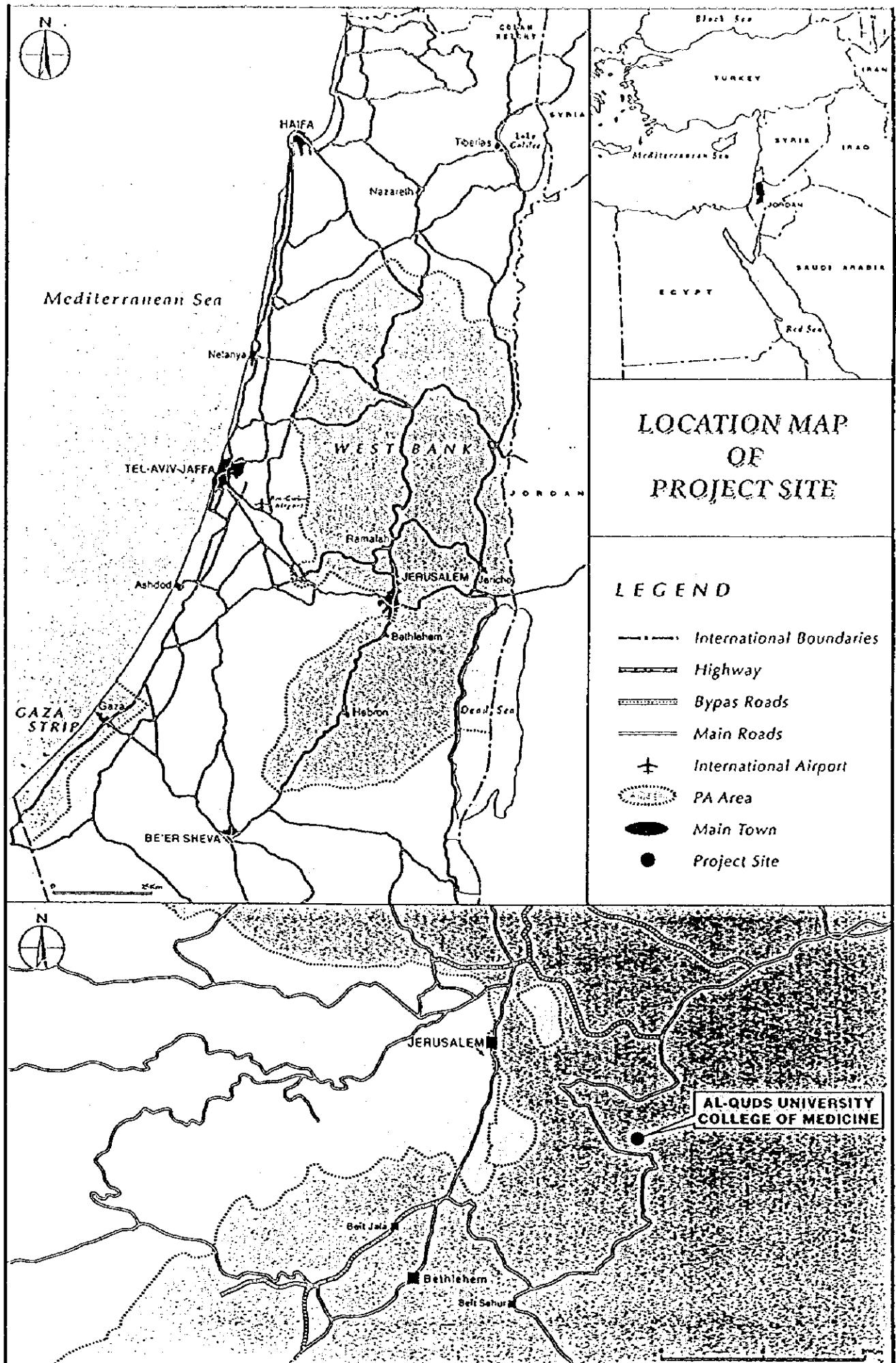
- (1) The consultants of the Team will proceed to further studies in the PA until October 10, 1998.
- (2) JICA will prepare a draft basic design report in English and dispatch a mission in order to explain its contents around December, 1998.
- (3) In the event the contents of the draft basic design report is accepted in principle by the PA, JICA will complete the final basic design report and send it to the PA around April, 1999.

7. Reply to the questionnaire

The PA side will submit the reply to the questionnaire by September 30, 1998 to the Team.

8. Other Relevant Issues

- 1) Both parties have agreed upon the basic criteria for selection of equipment for which are attached to ANNEX 5.
- 2) The PA side explained that all construction work of the building will be completed up to December, 1999.
- 3) Ministry of higher Education will secure necessary budget for the operation and maintenance, and personnel for the Project.
- 4) Ministry of Higher Education will get various internal clearance, as applicable.



EQUIPMENT LIST

1. Audio - Visual
2. Equipment and Tools
3. Anatomic Model
4. Teaching Materials

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JAPAN'S GRANT AID PROGRAM

1. Grant Aid Procedures

1) Japan's Grant Aid Program is executed through the following procedures

Application:	(Request made by a recipient country)
Study:	(Basic Design Study conducted by JICA)
Appraisal & Approval:	(Appraisal by the Government of Japan and Approval by Cabinet)
Determination of Implementation:	(The Notes exchanged between the Government of Japan and the recipient Country)

2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a Study on the request. Secondly, JICA conducts the Study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

2. Basic Design Study

1) Contents of the Study

The aim of the Basic design Study (hereafter referred to as "the Study"), conducted by JICA on a requested project (hereafter referred to as "the

Project") is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Study are as follows:

- a) Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of item agreed on by both parties concerning the basic concept the Project.
- d) Preparation of a basic design of the Project
- e) Estimation of costs of the Project

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For smooth implementation of the study, JICA uses (a) registered consultant firm(s). JICA select (a) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a basic Design Study and write(s) a report, based upon terms of reference set by JICA. The consulting firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency.

3. Japan's Grant Aid Scheme

1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

- 3) "The period of the Grant Aid" means the one fiscal year which the Cabinet approves the project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed.

However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

- 4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However the prime contractors, namely, consulting, constructing and procurement firms, are limited to Japanese nationals. (The term Japanese nationals means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals.

Those contracts shall be verified by the Government of Japan. This

Verification is deemed necessary to secure accountability to Japanese taxpayers.

6) Undertakings required of the Government of the Recipient Country

In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the following:

- (1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- (2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (3) To secure buildings prior to the procurement in case the installation of the equipment.
- (4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- (5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- (6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.
- (7) "Proper Use"
The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.
- (8) "Re-export"
The products purchased under the Grant Aid should not be re-exported from the recipient country.

(9) Banking Arrangements (B/A)

- a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as the Bank). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

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NECESSARY MEASURES TO BE TAKEN
BY THE PALESTINIAN INTERIM SELF-GOVERNMENT AUTHORITY

1. to provide data and information necessary for the Project,
2. to secure the site for the Project,
3. to secure the building,
4. to bear commissions to the Japanese foreign exchange bank for its banking service based upon the Banking Arrangement (B/A), namely the advertising commission of the Authorization to Pay (A/P) and payment commission,
5. to ensure tax exemption, customs clearance at the port of disembarkation and prompt internal transportation therein of the materials and equipment for the Project purchased under the Grant Aid,
6. to exempt Japanese juridical and physical nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in PA with respect to the supply of the products and services under the verified contracts,
7. to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such facilities as may be necessary for their entry into PA and stay therein for the performance of their work,
8. to provide necessary permissions, licenses and other authorizations for implementing the Project, if necessary,
9. to assign appropriate budget and staff for proper and effective operation and maintenance of equipment procured under the Grant Aid,
10. to maintain and use properly and effectively the equipment procured under the Project, and
11. to bear all the expenses, other than those to be borne by the Japan's Grant Aid within the scope of the Project.

SFW

Principle of Selection of Equipment

1) Priority Principle

- (1) Equipment to be replaced with the existing deteriorated equipment.
- (2) Equipment to be supplemented additionally for the existing equipment which quantity are definitely in short.
- (3) Equipment to be utilized for basic sciences and medical training activities.
- (4) Equipment with no difficulty on the operation and maintenance.
- (5) Equipment which is produced high cost effectiveness.
- (6) Equipment which medical effect is established.
- (7) Equipment to be operated and maintained properly by the present technical level of the college staff.
- (8) Equipment which operation and maintenance manpower is already established or will be established soon.
- (9) Equipment to suitable for social background conditions (such as referral system and local needs).
- (10) Equipment which might be possible to cooperate and coordinate with other donor.

2) Deletion Principle

- (1) Equipment which need high operation and maintenance cost.
- (2) Equipment to be utilized for small benefit because of limited number of students to be educated.
- (3) Equipment to be utilized for only research activities.
- (4) Equipment to be utilized by employing more simple type.
- (5) Equipment which produce waste materials causing environmental contamination problem.
- (6) Equipment which might be used for private use by the college staff.
- (7) Equipment might be requested more than optimal minimum quantity (ineffective and duplicate equipment).
- (8) Equipment with some difficulty for spare parts and consumables supplies in local site.
- (9) Equipment to be operated and maintained improperly by the present technical level of college the staff.

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- (10) Equipment whose operation and maintenance manpower is not yet established.
- (11) Equipment unsuitable for social background conditions (such as referral system and local needs).
- (12) Equipment with additional infrastructure improvement work (such as water, electricity and drainage, etc.) for the installation.

3) Principle Applicable for International Standard

WHO guideline (for example, Radiological Apparatus Installation) should be applied individually.

SAW

2. Explanation of Draft Basic Design

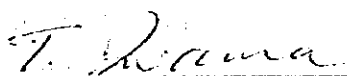
MINUTES OF DISCUSSIONS ON THE BASIC DESIGN STUDY ON THE PROJECT FOR SUPPLY OF EQUIPMENT FOR COLLEGE OF MEDICINE, AL-QUDS UNIVERSITY IN THE PALESTINIAN INTERIM SELF-GOVERNMENT AUTHORITY (CONSULTATION ON DRAFT REPORT)

In September 1998, the Japan International Cooperation Agency (JICA) dispatched a Basic Design Study Team on the Project for Supply of Equipment for College of Medicine, Al-Quds University in the Palestinian Interim Self-Government Authority (hereinafter referred to as "the Project"), and through discussions of the needs, field survey, and technical examination of the results in Japan, has prepared the draft report of the study.

In order to explain and to consult the Palestinian Interim Self-Government Authority (hereinafter referred to as "Palestine") on the components of the draft report, JICA sent to Palestine a study team, which is headed by Mr. Toshiyuki IWAMA, Deputy Director, First Project Study Division, Grant Aid Project Study Department, JICA, and is scheduled to stay in the Palestine from December 2 to December 20, 1998.

As a result of discussions, both parties have confirmed the main items described on the attached sheets.

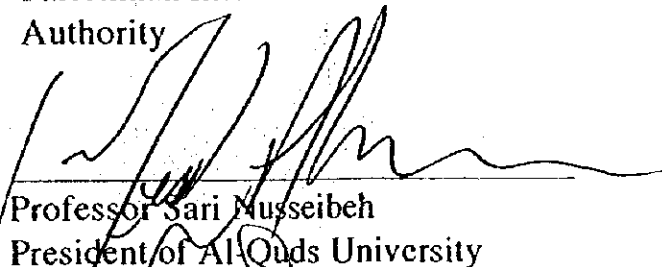
Ramallah, December 15, 1998



Mr. Toshiyuki IWAMA
Leader,
Draft Report Explanation Team,
JICA



Professor Munther Salah
Minister of Higher Education
Palestinian Interim Self-Government
Authority



Professor Sari Nusseibeh
President of Al-Quds University

(Witness)



Mr. Waleed A. Siam
Director General / International Cooperation
Ministry of Planning and International Cooperation

ATTACHMENT

1. Components of the Draft Report

The Palestinian Side has agreed and accepted the following: (1) exclusion criteria for equipment; (2) list and quantity of equipment, attached as Annex 1; and (3) the drawings indicating the laboratories and spaces where the equipment will be installed, attached as Annex 2.

2. Japan's Grant Aid System

- 1) The Palestinian Side has understood the system of Japan's Grant Aid System as described in Annex 3.
- 2) The Palestinian Side will take necessary measures, as described in Annex 4 for smooth implementation of the Project.

3. Presentation of the Final Report

JICA will make the final report in accordance with the confirmed items enclosed and send it to the PA around April, 1999.

4. Other Relevant Issues

- 1) The Palestinian Side reconfirms its strong preference to have the agreed upon list (Annex 1) of equipment delivered in one phase. However, should the Japanese Side decide to separate deliveries, the University Technical Committee and the Team will jointly decide on the list of equipment for each phase by December 20, 1998.
- 2) The Palestinian Side confirmed that the construction works of the new facility for College of Medicine is in line with the schedule and will be completed by early 2000. The Palestinian Side will try to renegotiate with the contractor for inclusion of the power compensation system. However if this has proven to be impossible, UPS will be included as a part of the equipment under this Project in order to protect sensitive equipment from possible damage. In case a generator needs to be included to the Project for the same reason, the Palestinian Side will provide the necessary electricity network system.
- 3) The Palestinian Side confirmed to take necessary measures for the sustainable operation of the College of Medicine (allocation of necessary budget, teaching staff, equipment maintenance staff, etc.) so that the equipment will be fully utilized immediately after hand-over.
- 4) Al-Quds University will conduct annual monitoring and evaluation on the activities of the Medical College in June and will provide a copy of the

assessment to the local JICA Office. The assessment will include inter alia: (1) dates of completed installation and first use; (2) monthly usage expressed in total hours spent for every laboratory and other major equipment; and (3) amount of O/M (operation and maintenance) budget allocated and spent.

JA H
T.

ANNEX 1

AUDIO-VISUAL

1/1

No	Equipment Name	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Mic/Imm/Emat	Molecular Biology	Anat/Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Class	Totals
A-1a	Fixed Television set	17					1	1		1		1	1			12	
A-1b	Mobile TV	5						2		1	1			1			
A-2	Video Cassette Recorder	12														12	
A-3	Electronic Projector	5				1										4	
A-4	Over-head Projector	12				2	1	3	1	2	1	1	1				
A-5	Screens (for Projectors)	12				2	1	3	1	2	1	1	1				
A-6	Slides Projector	12				2	1	3	1	2	1	1	1				
A-7	Dactylophone	10					1	3	1	2	1	1	1				
A-8	Tape recorder	5						1		1	1	1	1				
A-11	Scanner - color	6	2							2		1	1				
A-12	LCD	12	2					3	1	2	1	1	1		1		
A-13	Photocopier	6															6
A-27	Software	*	*														
A-28	PC	*	*														
A-29	Laser Printer color	6	4							1		1					
A-30	Laser Printer Black & White	**	**														
A-34	Video camera	3	1							1		1					
A-35	Camera with zoom lenses	2	1										1				
A-37	Computer assisted teaching Slide, maker	1	1														
A-38	Maintenance Workshop (Electro-mechanical)	1	1														

* Palestinian side requested 60 units, Japaneses accepted 31 units

** Palestinian side requested 6 units, Japaneses accepted 3 units

TRANSPORTATION FACILITIES

No	Equipment Name	Qty	
B-1	4 Wheel drive Pick Up	1	Common
B-2	Mini-Bus	3	Common

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EQUIPMENT AND TOOLS

No	Equipment	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Microbiology	Molecular Biology	Ana. Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Health	Special Place
E-1	Amino Acid Analyzer	1							1								
E-2	Deep Freezer	3						1					1		1		
E-3	Beta Counter	1				1											
E-4	Big size Autoclave	2						1					1				
	Medium size Autoclave	2								1					1		
	Small size Autoclave	2						1						1			
E-5	HPLC	3			1						1		1				
E-6	Gas chromatography	2			1						1						
E-7	LC Mass Spectroscopy	1			1												
E-8	GC Mass Spectroscopy	1			1												
E-9	Double beam spec.	6			1	2					1		1		1		
E-10	PCE Maker	3														3	
E-11	Atomic Absorption	1		1													
E-12	Lyophilizer	2						1							1		
E-13	DNA Sequencer	1													1		
E-14	Large Refrig. (3.5x2.5x2m)	3															
E-15	Ultra Centrifuge VTI 65.2 VTI 50 SW 40 SW 70	2							1						1		
E-19	Blood bank refrigerator	1							1								
E-21	Electron Microscope	1		1													
E-23	Fluoro-s. Imager, Fluoro Scanner	1						1									
E-25	Anatomical Charts	2								1		1					
E-30	Ostomy Model	1								1							
E-31	Incubation Set	1										1					
E-32	Emergency Trolley	2									1		1				
E-33	Ear Syringe Trainer	1								1							
E-34	Intramuscular Injection	1								1							
E-35	Pediatric injection head simulator	1								1							
E-37	Series showing pregnancy	1								1							
E-38	Enema Administration Simulator	1								1							
E-39	Peritoneal Dialysis Simulator	1								1							
E-40	Surgical Bandaging Simulator	1								1							
E-41	Model of a set of teeth	1								1							
E-42	Pediatric injection arm Simulator	1								1							
E-44	FT - IR	2			1	1											
E-45	Ion- Chromatography	1		1													
E-46	C, H, N, O, S Analyzer	1		1													
E-47	TGA (Thermal Gravimetric Analyzer)	1		1													
E-48a	Analytical balances (with hood) Sensitivity - five D.P	8		2	2	1			1			1	1				
E-48b	Analytical balances (with hood) Sensitivity - four D.P	10		2	1	4			1			1	1				
E-49	Heating - cooling circulators	18			2	5		1	1	2	1	1	1	2	2		
E-50	Centrifuge - low speed bench top	10			1	2					1	1	1	2	2		
E-51	Distillator (with Water tank)	3			1	1									1		
E-52	Sonicator	4			1			1	1						1		
E-54	Liquid nitrogen maker	1															1
E-56	Dry ice maker	1															1
E-57	Top load balances	10					1	3	1	2				1	1		
E-59	Ambient Air Analyzer	2										1	1				
E-60a	Water baths (regular Type)	10			1	1		2	1		1	1	1	1	1		
E-60b	Water baths (shaking Type)	2						1							1		
E-61	Kjeldahl apparatus	2		1		1											
E-62	Gerber Machine with all accessories	2		1		1											
E-63	Refractometer	5				5											
E-64	Polarimeter	5				5											
E-65	Tensiometer	5				5											
E-66	Digital bomb calorimeter	2				2											
E-67	Laboratory steam boiler	1				1											
E-68	Rising Film Evaporator	1				1											
E-69	Reverse osmosis Ultrafiltration Unit	2															
E-76	Fluid Friction Apparatus	1						1							1		
E-77	Tray Drier (1)	1													1		
E-78a	Sonicator, Probe	2										1			1		

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EQUIPMENT AND TOOLS

No	Equipment	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Microbiology	Molecular Biology	Anat/Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Hall	Special Place
E-78b	Super critical fluid extractor unit	1			1												
E-79	Sound level meter	4					2					2					
E-84	Respiratory System Model	2								1		1					
E-85	Digestive System Model	2								1		1					
E-86	Circulatory System Model	2								1		1					
E-87	Urinary System Model	2								1		1					
E-88	Adult CPR Training Manikin	1								1							
E-89	Child CPR Training Manikin	1								1							
E-90	Ear Model	2								1		1					
E-92	Bunsen Burners	100		3	2	15	5	21	5	13	8	8	4	8	8		
E-93	Biological Safety cabinet	10				1		3	1	2	1	1	1				
E-95	Flame Photometer	2									1		1				
E-96	Incubators	5				1		1			1	1	1				
E-97	Dark field microscope	1						1									
E-98	Rotary Microtome	3				1				1			1				
E-99	Sledge type microtome	3								1			1	1			
E-100	Tissue Centrifuge (Cytospin type)	1							1								
E-101	Floating out bath for Paraffin sections	3							1				1				
E-102	Tissue processor	3							1				1				
E-103	Microscope plan Apochromat Objectives x2, x10, x25, x100; oil with Fully automatic photo system	2						1		1							
E-104	Embedding Center	2								1			1				
E-106	Fume Hood	13		3	2	2		1		2	1	1	1				
E-107	Slide Cabinet for slide storage	4						2		2							
E-108	Binocular Microscope for students Plan x2, x10, x25, x40, x100; objectives Eye pieces x100, Safety Cabinet	60						15		15				15	15		
E-109	CO ₂ Incubator	2						1							1		
E-110	Tissue incubator	1												1			
E-112	Binocular polarizing Microscope	3							1								
E-113	Automatic Stainer	5						1	1				1		1		
E-114	Deep Freezer- Cabinet type (large)	3										1		1	1		
E-115	Refrigerator (Home Type)	10			1			1	1	2	1	1	1	1	1		
E-116	Safety cabinet	16		1	2	2		3	1	2	1	1	1	1	1		
E-118	Teaching Microscope with television video Output via Camera - 3CCD Plan Apochromat objectives Plan x2, x10, x25, x40, x100, wide field x100 eyepieces, A	4						1	1					1	1		
E-120	Dissecting Microscopes	30						8	2	6	2	2	2	4	4		
E-121	pH meter	24		1	1	4		4	1	2	3	3	1	1	3		
E-125	Basic current balance	4					4										
E-126	Induction by means of a variable magnetic field	4					4										
E-127	Optical pumping	4					4										
E-128	Free fall	4					4										
E-129	One dimensional motions R truck on the linear air track	4					4										
E-130	KERR effect	4					4										
E-131	Torsion Pendulum	4					4										
E-135	Magnetic Spectroscopy (220MHz)	1			1												
E-213	STOP WATCH, Interruption type	30			1		2	3	1	5	4	4	2	4	4		
E-261	Drug level analyzer	1									1						
E-262	Glass ware washer	4						1			1	1			1		
E-263	Tablet dissolution tester	1									1						
E-264	Tablet Hardness, thickness instrument	1									1						
E-265	Tablet control system	1									1						
E-267	Particle counter	1									1						

EQUIPMENT AND TOOLS

No.	Equipment	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Microbiology	Molecular Biology	AnaPath	Pharmacology	Physiology	Forensic Medicine	Biology	Biotechnology	Hall	Special Place
E-268	Nitric Oxide Detector	1										1					
E-269	Jacket organ bath	5								2		1	2				
E-271	Animal operating set	1 set										1					
E-274	Rat holder	2										2					
E-275	Cat holder	2										2					
E-276	Kymograph with simulator set	2									1	1					
E-277	ICP-MS	1		1													
E-278	High Speed Centrifuge with rotors SS34 & GSA	5								1	1	1		1	1		
E-281	Gamma Counter	1				1											
E-282	Melting point apparatus	2				2											
E-287	Ovens	8		1	1	1		1				1		1	1		
E-288	Orbital shaker	4									1	1		1	1		
E-290	Micro centrifuge	8			1	1		1		1	1	1		1	1		
E-291	Blood Gas Analyzer	1										1					
E-292	Tissue Homogenizer	3						1			1	1					
E-293	Calorimeter	2				2											
E-294	Evaporators	6				6											
E-295	Conductivity meter	4				4											
E-296	Multi-teaching Microscopes	4								1	1		1	1			
E-297	Slide Warmer	2						1		1							
E-298	Staining set	10						4		2		2	2				
E-299	X-Ray film illuminator	2								1					1		
E-303	Multi Channel Recorder electrocardiograph	4										4					
E-305	Resuscitation Unit	2										2					
E-307	Kymograph with basic stimulator	1										1					
E-308	Hemodynamic measuring System	1										1					
E-310	Inverted Microscope	2										2					
E-311	Micro manipulators	2										2					
E-313	Axopatch amplifiers	3										3					
E-314	Electrical stimulator set	3										3					
E-315	Oscilloscopes	3										3					
E-318	Tissue slicer (chopper)	2										1		1			
E-321	Hematocrit centrifuge	7							1	1	1	1	1	1	1		
E-323	Spirometer Set	6										6					
E-324	Cylinder Sets with Outlets & Regulators O ₂ (4), N ₂ (4), H ₂ (3), N ₂ O (2), C ₂ H ₂ (2), He (2), Ar (5)	4									2	2					
E-325	Cycle Ergometer	6										6					
E-326	Gas (volume) meter	2										2					
E-327	CO ₂ meter	2										2					
E-328	O ₂ meter	2										2					
E-330	Douglas bags	10										10					
E-331	Flexible tubes	20										20					
E-333	Sphygmomanometers	40									5	35					
E-334	Weighing Scale	5				1	1				1	1		1			
E-335	Tread Mill	1										1					
E-336	Recorder Multichannel (Thermal)	2										2					
E-341	Refrigerated table top centrifuge (varifuge)	10						2	1	2	1	1	1	1	1		
E-342	Pulsed field gel electrophoresis system	2													1	1	
E-343	Washing Machine (Large)	1															1
E-344	Distillation Unit (Large)	1															1
E-345	PCR Thermal cycler	3							1				1		1		
E-347	Laminar flow hoods	5				1					1	1		1	1		
E-348	Fluorescent Microscope	3						1		1				1			
E-349	Upright Freezer	6						1			1	1	1	1	1		
E-350	Eliza readers	4						1			1		1		1		
E-351	Analyzer: Chemistry analyzer 18 parameters	1															1
E-352	Blood Cell counter: automated to read 18 different parameters	3						1							1		1
E-353	Mechanical Stirrer	20		3	2	8					1	2	1	2	1		
E-354	Sonar	2						1			1						
E-355	Double Jacketed open kettles with electrical heater	10				10											
E-356	Karl Fisher Titrator	2			1	1											
E-357	Lovibond Tintometer	1				1											
E-358	Hydrogenation autoclave	1				1											

EQUIPMENT AND TOOLS

No	Equipment	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Microfilm/Fluorim	Molecular Biology	Anat/Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Hall	Special Place
E-359	Gel Documentation Reader	2												1	1		
E-361	Counter: Manual white blood cell differential	20							11			8	1				
E-362	Cryogenic tanks/incubators (2L, 10L, 20L, 30L)	2												1	1		
E-363	Culturing: Millipore System	1												1			
E-365	Cuvette Washer	2												1	1		
E-366	Densitometer: for gel (laser)	2												1	1		
E-367	Dispensers: 0.2 ml, 1-10 ml (set)	1													1		
E-368	Electrophoresis chamber (7) Power supplies (6)	7						1	2		1		1		2		
E-370	Evaporator: Using Nitrogen gas for 50 samples	1				1											
E-371	Fibrometer	1										1					
E-374	Glass bead cell homogenizer	2												2			
E-375	Hemacytometer Set	20							11			8	1				
E-376	Hetovac Centrifuge	3											1	1	1		
E-377	Hot Plate with magnetic stirrer	32				4		2		8	4	3	1	4	4		
E-378	Immunoblotter	1						1									
E-379	Incubator: Shaking	2						1							1		
E-381	Microscope: Interphased with TV screen with phase contrast adapter, double head	2						1		1							
E-382	Mixer: blood tube	5						2		2			1				
E-383	Nephelometer: laser	2													2		
E-384	Opaque Viewer	4													4		
E-385	Osmometer: freezing point	2				2											
E-386	Osmometer: vapor pressure point	2				2											
E-387	Phospholipid Analyzer	1													1		
E-388	Pipette Cleaning System	8				1		2		1	1	1	1		1		
E-389	Pipettes: 0-500 μ l, 0-1000 μ l, 0-5000 μ l, 0-5 μ l, 0-10 μ l, 0-25 μ l, 0-50 μ l, 0-100 μ l, 0-250 μ l	50			2	4	10		10	5	5	5	5	4	5		
E-391	Plasma Extractor	2						2									
E-393	Power Compensation System	1															1
E-395	Safety Cabinet: for mycology	1						1									
E-396	Selective Ion Electrodes: Na ⁺ , K ⁺ , NH ₄ ⁺ , CO ₂ , CO	12				6							6				
E-397	Serofuge	2						2									
E-398	Shaker: slide shaker with semicircular motion	6						1		1	1		1		2		
E-399	Slide Shaker	2											1		1		
E-403	Thermometer	20				4		3		4	3	2			4		
E-405	TLC system	5				1		1			1			1	1		
E-406	Trays: Staining	8							4						4		
E-407	Tuber: 10, 25, 50 ml conical glass tubes	200				40		20			50	50		20	20		
E-408	Urinometer	15										14	1				
E-409	UV transilluminator	4						1			1	1	1	1	1		
E-410	Vacuum pumps	8				3					1	1	1	1	1		
E-411	Vortex	12				1					3	3		1	4		
E-414	Glass ware set	1 lot		*	*	*		*	*	*	*	*	*	*	*		

* To be provided

TEACHING MATERIALS

No	Equipment	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Microfilm/Fluorim	Molecular Biology	Anat/Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Hall	Special Place
T-1	Slide set for microbiology	20						20									
T-2	Slide set for normal histology	20								20							

ANATOMIC MODELS

No	Equipment List	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Micromin/tenor	Molecular Biology	Anat/Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Halls	Special Place
M-1	Thoracic Spinal Column	1															
M-2	Lumbar Spinal Column	1															
M-3	6 Vertebrae	1															
M-4	Arm Skeleton	1															
M-5	Leg Skeleton	1															
M-6	Advanced Medical Torso (28 part)	2										1					
M-7	Super Muscle torso	1															
M-8	Disc Torso 15 slices	1															
M-9	Median Frontal Section of Head	1															
M-10	Relief Models	1															
M-11	Larynx	1															
M-12	Advanced Left Ear @ (6 parts)	1															
M-13	Eye in Orbit 4 Times Full Size	3								2		1					
M-14	Skin section 200X	1								1							
M-15	Relief Model	1								1							
M-16	Brain - 4 - part	2								1		1					
M-18	Brain with arteries 10 parts with base of head	1								1							
M-20	Spinal Cord, 6 Times Full Size	1								1							
M-21	De Luxe Heart - 7 part	2								1		1					
M-22	Basic Heart - 1 part	2								1		1					
M-24	Heart with Oesophagus Aorta & Windpipe	2								1		1					
M-25	Heart with Thyroid - 3 part	1								1		1					
M-26	Lung - 5 parts	2								1		1					
M-27	Digestive System - 3 parts	2								1		1					
M-28	Stomach with Duodenum +	2								1		1					
M-29	Pancreas - 3 part	2								1		1					
M-30	Intest. Porgans - 2 parts	1								1							
M-31	Liver with Gall Bladder	2								1		1					
M-32	Kidney with Adrenal Gland - 2 part	1								1							
M-33	Kidney section - Basic version	1								1							
M-34	Liver with Gall Bladder Pancreas and Duodenum	2								1		1					
M-36	Kidney Nephrons Blood Vessels	2								1		1					
M-38	Complete Urinary System Dual Sex 6 parts	2								1		1					
M-40	Female Pelvis - 2 parts	2								1		1					
M-41	Male Pelvis - 2 parts	2								1		1					
M-44	Embryonic Development (12 stages)	1								1							
M-45	S/J STR	1								1							
M-46	Pregnancy Series - 8 models	1								1							
SCISSORS																	
M-47	Dressing Scissors	2								1			1				
M-48	Sharp - str.	2								1			1				
M-49	Sharp str.	2								1			1				
M-50	Mayo Scissors Chartered blades	1								1							
M-51	Mayo Scissors Flat blades Str.	2								1			1				
M-52	Mitzenbaum Scissors Str.	2								1			1				
M-53	Iris Scissors Sharp Col Heavy weight	1								1							
FORCEPS																	
M-54	Dissecting forceps Block End	2								1			1				
M-55	Dissecting forceps Fine pointsteeled 1x2	1								1							
M-56	Dissecting forceps 2x3 teeth	1								1							
M-57	Bonney Dissecting forceps 1x2 teeth	2								1			1				
M-58	Treves dissecting forceps 1x2 teeth	1								1							
M-59	Fixation dissecting forceps 1x2 teeth	1								1							

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ANATOMIC MODELS

No	Equipment List	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Mic/Imm/Hist	Molecular Biology	Anat/Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Metals	Special Places
ARTERY FORCEPS																	
M-60	Kilner Artery Forceps	2								1			1				
M-61	Serrated B/J Col	2								1			1				
M-62	Spencer Wells Artery Forceps S/J, Serrated, S/J, STR	2								1			1				
M-64	Artery sinus forceps B/J, Serrated	1								1							
NEEDLE HOLDER																	
M-65	Higgs Needle Holders cross serrated jaws B/J	1								1							
M-67	Kilner Needle Holder cross serrated jaws B/J	1								1							
RETRACTOR																	
M-68	West Retractor self retaining 3 x 4 teeth Blunt points	1								1							
M-69	Liton amputation Knife	1								1							
M-70	B.P. Standard Scalpel Handle No 3	3								2			1				
M-71	B.P. Standard Scalpel Handle No 4	3								2			1				
BLADES, ETC.																	
M-73	Blades 10	2								1			1				
M-74	Blades 15	3								1			1				
M-75	Blades 20	2								1			1				
M-76	Blades 21	2								1			1				
M-77	Blades 23	2								1			1				
M-78	Blades 24	2								1			1				
M-79	Silver Probe with eye	1								1							
M-80	Mardonald Dissector double ended	1								1							
M-81	Syme Dissector double ended blunt/Sharp	2								1			1				
M-82	Aneurysm Needle Small	1								1							
M-83	Syme Aneurysm needle	1								1							
M-84	Iris Dissecting Forceps, 1x2 teeth, STR	1								1							
M-85	Walsgrave Tubing clamps Box Joint Heavy pattern	2								1			1				
M-86	Girtz RIB Shears	1								1							
M-87	Thudicum Nasal Speculum, Size 1	1								1							
M-88	Laryngeal mirror Handles	1								1							
M-89	Laryngeal Mirror without handle	3								2			1				
M-90	Head Mirror, Fibre forehead band	1								1							
M-91	Palon Bone Cutting Forceps	1								1							
M-92	Toothed Bone Rooguer	1								1							
M-93	Sattorlee Amputation Saw	1								1							
M-94	Bristow Periosteal Elevator	1								1							
M-95	Mallet, Stainless steel	1								1							
M-96	Engel Saw	1								1							
M-97	Farabouf Rogine, chisel edge straight end	1								1							
M-98	Pennybacker probe Dissector Double ended	1								1							
M-99	McIndoe Scissors	1								1							
M-100	Kilner Scissors	1								1							
M-101	Gillies Dissecting Forceps, 1x2	1								1							
M-102	Sprague Bowles endoscope	2								1			1				
M-103	National Hospital Percussion Hammer	2								1			1				
M-104	Medical Jig Saw	1								1							
M-105	Medical Jig Saw	1								1							

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PHYSIOLOGY TEACHING AND RESEARCH

No	Equipment Name	Qty	Computer	Spectroscopy	Chromatography	Chemistry	Physics	Microbiology	Molecular Biology	Analytical Path	Pharmacology	Physiology	Forensic Medicine	Biology	Biochemistry	Health	Special Place
K-2	Pulmonometer	6										6					
K-3	Reaction timer	6										6					
K-24	Rats Voltmeter	2										2					
COMPLETE DISSECTING SET FOR MEDICAL S																	
K-27	Stainless steel instrument case	15										15					
K-28	Gross anatomy probe	15										30					
K-29	Bull Dog Clamps (slight curve)	30										15					
K-30	Alm Retractor	15										15					
K-31	Fine Iris Scissors	15										15					
K-32	Standard Surgical Scissors	15										15					
K-33	Scissors	15										15					
K-34	Hemostatic Forceps, curved	15										15					
K-35	Hemostatic Forceps, Str.	15										15					
K-36	Michel Suture Applicator	15										15					
K-37	Michel Suture Clips	15										15					
K-38	Spatula	15										15					
K-39	Scalpel Handles 3 solid	15										15					
K-40	Scalpel Handles 4 solid	15										15					
K-41	Blades for Scalpel for 3 solid	15										15					
K-42	Blades for Scalpel for 4 solid	15										15					
K-43	Narrow Pattern Dressing Forceps, Str. 12 cm	15										15					
K-44	Narrow Pattern Dressing Forceps, Str. 16 cm	15										15					
K-45	Narrow Pattern Dressing Forceps, Curved 16 cm	15										15					
K-46	Narrow Pattern Dressing Forceps	15										15					
K-48	Microscope tissue chamber with temp. controller	1										1					
K-49	Precision Stereo Zoom Microscope & optional boom stand	1										1					
ELECTROPHYSIOLOGY LAB.																	
K-54	High Performance Physiograph with different transducers for measuring ECG, EEG, EMG, BR, HR	1										1					
SYSTEMATIC PHYSIOLOGY LAB.																	
K-70	Lab Animal Exercise set	1										1					
K-76	Isolated Organ Bath	1										1					
ANIMAL UNIT																	
K-78	Animal cages set	1															1
K-92	Air Conditioner with strong ventilation system	1															1

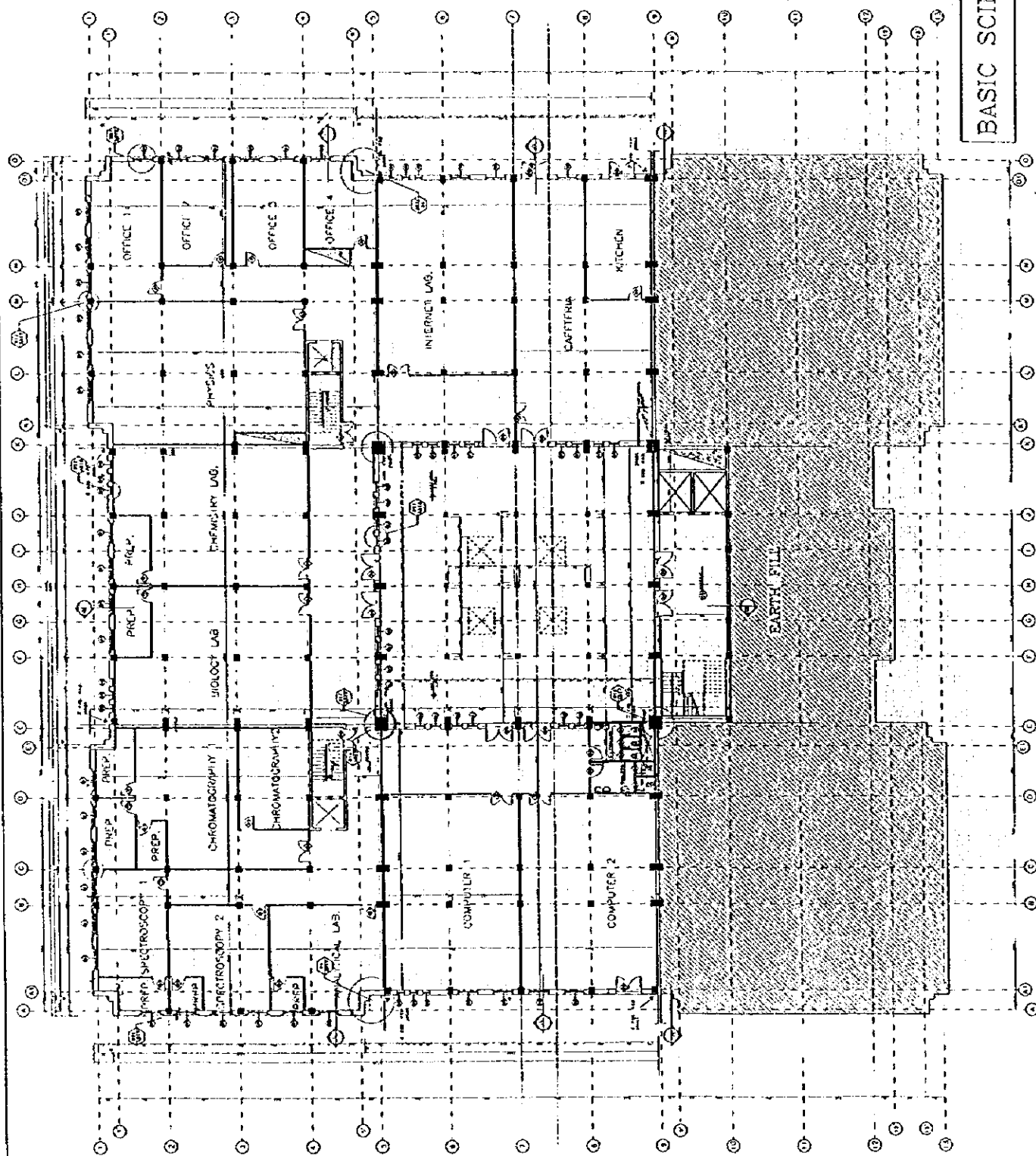
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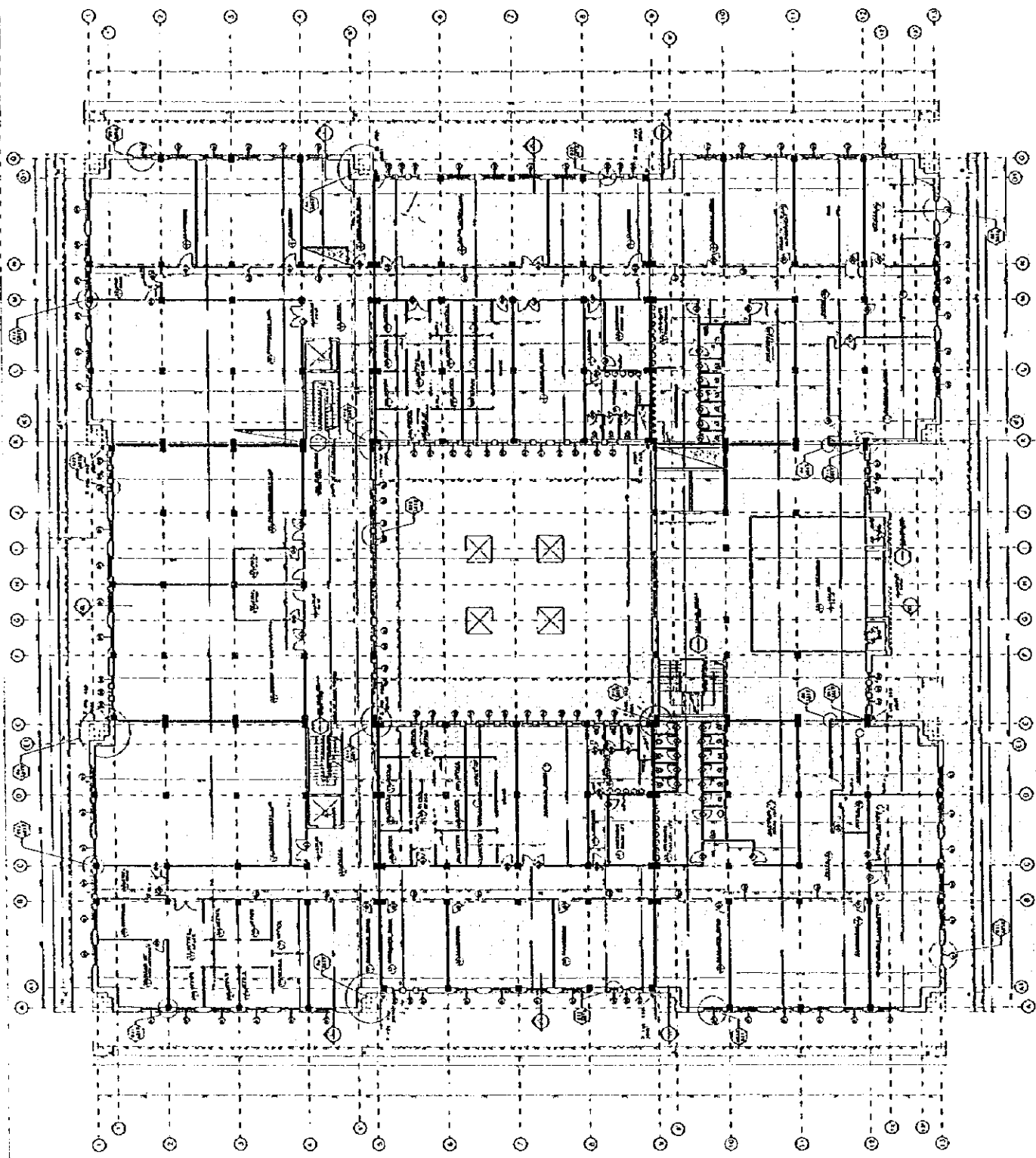
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NOTES



Appendices 5 Cost Estimation Bored by the Recipient

(1) Preparation of equipment and banking fee during the project implementation

Item	Description	Q'ty	Price (US\$)
Equipment	Lab. Table and Chair	42	29,400
	Computer Table	31	3,410
	Desks for Equipment	52	10,400
	Sub Total		43,210
Banking fees			6,920
Total			50,130

(2) Additional work in new building

Works	Equipment
Ventilation Work	Fume Hood, Kjeldahl Apparatus, Atomic Adsorption, etc.
Plumbing Work	Double Distillator, Ice Maker, etc.
Air Conditioning Work	Computer

(3) Cost estimation for maintenance and operation

				(Unit : US\$)
		Item	Consumable	Cost
Audio Visual	A-4	Over-Head Projector	Bulb	80
	A-6	Slide Projector	Bulb	20
	A-13	Photocopier	Toner	1,100
	Sub Total			1,200
Computer	A-29	Laser Printer Color	Toner	460
	A-30	Laser Printer Black & White	Toner	340
	Sub Total			800
Analytical Equipment	E-1	Amino Acid Analyzer	Reagent	7,700
	E-3	Beta Counter	Reagent	5,600
	E-5	HPLC	Reagent	2,520
	E-7	LC Mass Spectroscopy	Reagent	3,850
	E-8	GC Mass Spectroscopy	Reagent	3,850
	E-9	Double Beam Spectroscopy	Reagent	1,550
	E-44	FT - IR	Reagent	5,400
	E-45	Ion - Chromatography	Reagent	2,300
	E-46	C, H, N, O, S Analyzer	Reagent	2,700
	E-47	TOA (Thermal Gravimetric Analyzer)	Reagent	2,700
	E-95	Flame Photometer	Reagent	230
	E-98	Rotary Microtome	Spare Blade	430
	E-99	Sledge Type Microtome	Spare Blade	430
	E-106	Fume Hood	Filter	300
	E-261	Drug Level Analyzer	Reagent	4,600
	E-268	Nitric Oxide Detector	Reagent	460
	E-291	Blood Gas Analyzer	Reagent	10,500
	E-347	Laminar Flow Hood	Filter	180
	E-352	Blood Cell Counter	Reagent	3,700
	E-405	TLC System	Reagent	2,500
Sub Total				61,500
Grand Total				63,500

Appendices 6 Other Relevant Data

Appendices Table 1 Number of Student in University (1996/1997)

	Type of University	No. of Student														Postgraduate
		Total	Arts	Education	Business	Science	Information	Engineering	Medical	Pharmacy	Nursing	Medical Profession	Agriculture	Law	Others	
University																
Al-Azhar University - Gaza	Public	9,700	1,156	2,323	1,758	1,327				539			155	2,377		65
Islamic University - Gaza	Public	6,716	754	1,551	1,823	816		704			336				582	150
Bethlehem University	Public	2,071	653	440	501	321					117				23	16
Birzeit University	Public	3,646	960		946	622		847							111	160
Hebron University	Public	1,555	576	171	265		218						53		272	
Al-Quds University	Public	2,564	420			1,022			93			170		255	363	241
Al-Quds Open University	Ministry of Higher Education	8,478	3,453	2,682			1,108						91		1,144	
An-Najah National University	Public	7,602	1,245	1,213	1,741	785		724		305			307	187	662	433
College																
College of Education - Gaza	Ministry of Higher Education	2,045		1,846												199
College of Educational Sciences for Women	UNRWA	310		310												
College of Educational Sciences for Men	UNRWA	187		187												
College of Engineering & Technology - Hebron	Public	525						525								
Total		45,399	9,217	10,723	7,034	4,893	1,326	2,800	93	844	453	170	606	2,819	3,157	1,264
		100.0%	20.3%	23.6%	15.5%	10.8%	2.9%	6.2%	0.2%	1.9%	1.0%	0.4%	1.3%	6.2%	7.0%	2.8%

Appendices Table 2 Number of Staff in University (1996/1997)

	Total	Academic Staff				Administration Staff				Others						
		Ph.D.	Ma.	Ba.	Others	Sub Total	Ph.D.	Ma.	Ba.	Others	Sub Total	Ph.D.	Ma.	Ba.	Others	Sub Total
University																
Al-Azhar University - Gaza	348	97	63	32	1	193	0	0	50	46	96	0	0	0	0	59
Islamic University - Gaza	431	105	72	56		233	0	4	56	81	141	0	0	1	56	57
Bethlehem University	195	39	39	16	4	98	6	5	0	0	11	16	4	0	66	86
Birzeit University	645	136	84	7	6	233	11	28	147	117	303	0	0	9	100	109
Hebron University	135	36	30	0	1	67	2	4	23	16	45	0	0	0	23	23
Al-Quds University	487	92	87	2	7	188	5	8	113	73	199	0	0	1	99	100
Al-Quds Open University	180	9	28	0	0	37	11	8	19	42	80	0	0	0	63	63
An-Najah National University	554	205	91	20	0	316	9	18	82	112	221	0	0	0	17	17
College																
College of Education - Gaza	225	26	86	42	8	162	8	6	30	10	54	0	0	0	9	9
College of Educational Sciences for Women	34	16	18	0	0	34	0	0	0	0	0	0	0	0	0	0
College of Educational Sciences for Men	30	10	20	0	0	30	0	0	0	0	0	0	0	0	0	0
College of Engineering & Technology - Hebron	277	8	41	65	24	138	3	6	23	44	76	0	0	0	63	63
Total	3,541	779	659	240	51	1,729	55	87	543	541	1,226	16	4	11	555	586

Source : Statistical Yearbook of Palestinian Universities and Colleges 1996/1997

Appendices Table 3 Training Schedule in Hospitals

(1/2)

1. Schedule Table

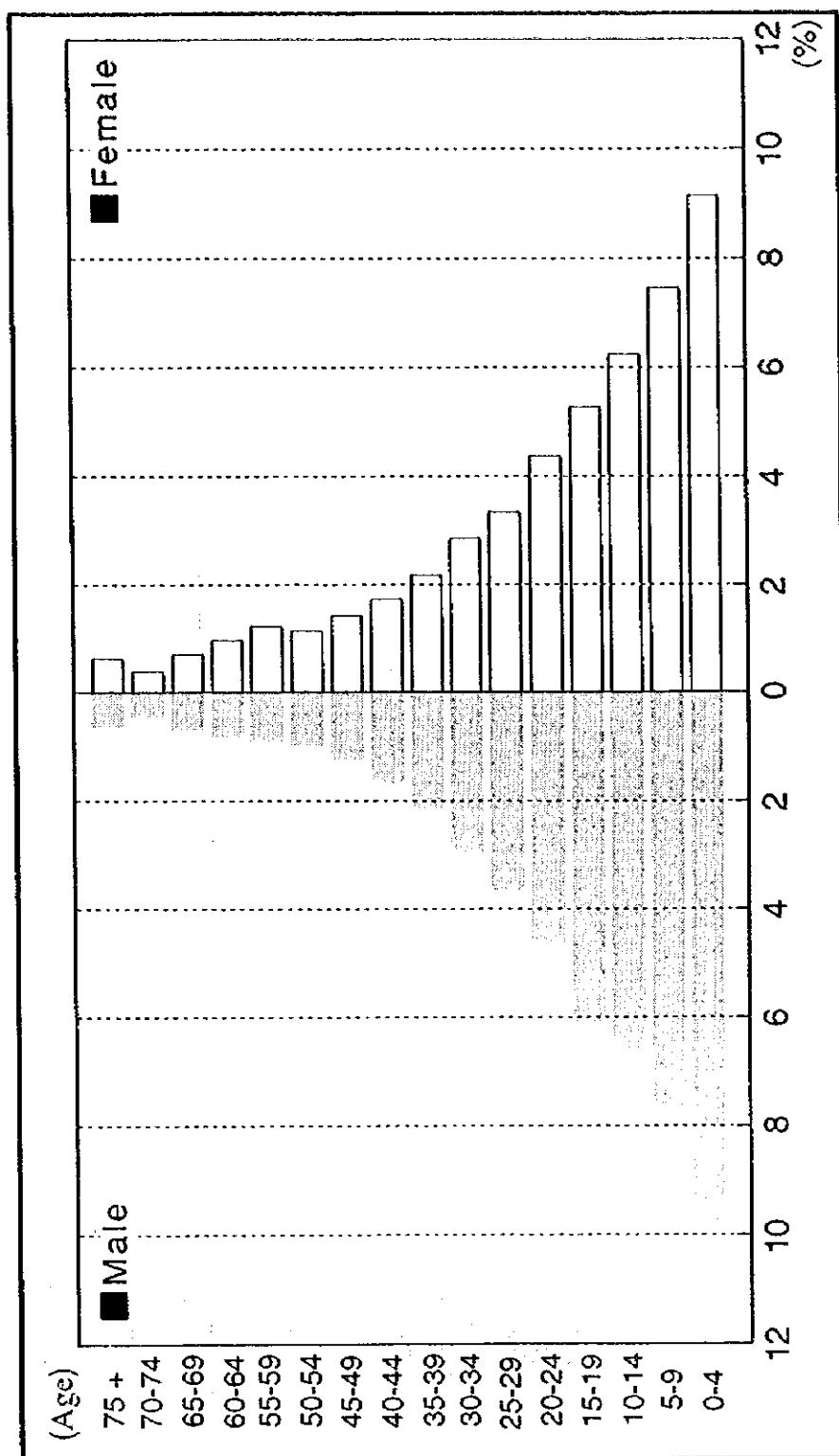
Grade	Subject	Credit Hours	Training Hospital			
			GR1	GR2	GR3	GR4
5	Training in Hospitals					
	Medicine (Junior)	18	1,2	1,2	1,2	1,2
	Surgery (Junior)	18	1,2	1,2	1,2	1,2
	Training in Campus					
	Clinical Pathology	2				
	Clinical Pharmacology	2				
	Parasitology	1				
	Occupational Medicine	1				
	Medical Genetics	1				
	Psychology/Medical Sociology	1				
6	Training in Hospitals					
	Paediatrics (Junior)	8	8	13	10	17
	Obstetrics & Gynaecology (Junior)	8	9	4	15	10
	Ophthalmology	2	3	3	3	18
	E.N.T.	2	9	10	6	15
	Dermatology	2	8	12	16	10
	Orthopaedics	3	1	9	11	15
	Neurosurgery	2	1	15	10	15
	Urology	2	9	10	1	15
	Urology	2	10	2	7	15
	Cardiothoracic Surgery	2	10	1	15	9
	Training in Campus					
	Rehabilitation	1				
	Community Medicine	6				
	Epidemiology	1				
	Forensic Medicine	2				
7	Training in Hospitals					
	Medicine (Senior)	12	1,2	10	8	15
	Surgery (Senior)	12	1,2	10	9	15
	Paediatrics (Senior)	8	1,2	6,7,8	10,13	15,17
	Obstetrics & Gynaecology (Senior)	8	9,10	4,1	11,12	15,16
	Psychiatry	4	14	14	14	19,14
	Training in Campus					
	Medical Statistics	2				

2. List of Training Hospitals

No.	Name of Training Hospital	Level	Clinical Field	Address
1	Al Makassed Hospital	Tertiary/NGO	General	Jerusalem
2	Augusta Victoria Hospital	Secondary/UNRWA	Medicine, Paediatrics, Radiology	Jerusalem
3	St. John Hospital	Secondary	Ophthalmology	Jerusalem
4	Red Crescent Society	Maternity	Obstetrics & Gynaecology	Jerusalem
5	St. Joseph Hospital	Secondary	General	Jerusalem
6	Jenin Hospital	Government/Secondary	General	Jenin
7	Tulkarm Hospital	Government/Secondary	General	Tulkarem
8	Watani Nablus Hospital	Government/Secondary	Medicine, Paediatrics, Radiology	Nablus
9	Ratidiha Hospital	Government/Tertiary	Surgery, Obstetrics, Radiology	Nablus
10	Ramallah Hospital	Government/Tertiary	General	Ramallah
11	Beit Jala Hospital	Government/Tertiary	General	Beit Jala
12	Jericho Hospital	Government/Secondary	General	Jericho
13	Hebron Hospital	Government/Secondary	General	Hebron
14	Kamal Psychiatric Hospital	Mental Health	Psychiatry	Bethlehem
15	Shifa Hospital	Government/Secondary	General	Gaza
16	Khan-Younis Hospital	Government/Secondary	General	Khan-Yunis
17	Al Nasser Paediatric Hospital	Government/Paediatric	Paediatrics	Gaza
18	Opthamalic Hospital	Government/Ophthalmic	Ophthalmology	Gaza
19	Psychiatric Hospital	Government/Psychiatric	Psychiatry	Gaza
20	European New Hospital	Secondary	General	Khan-Yunis

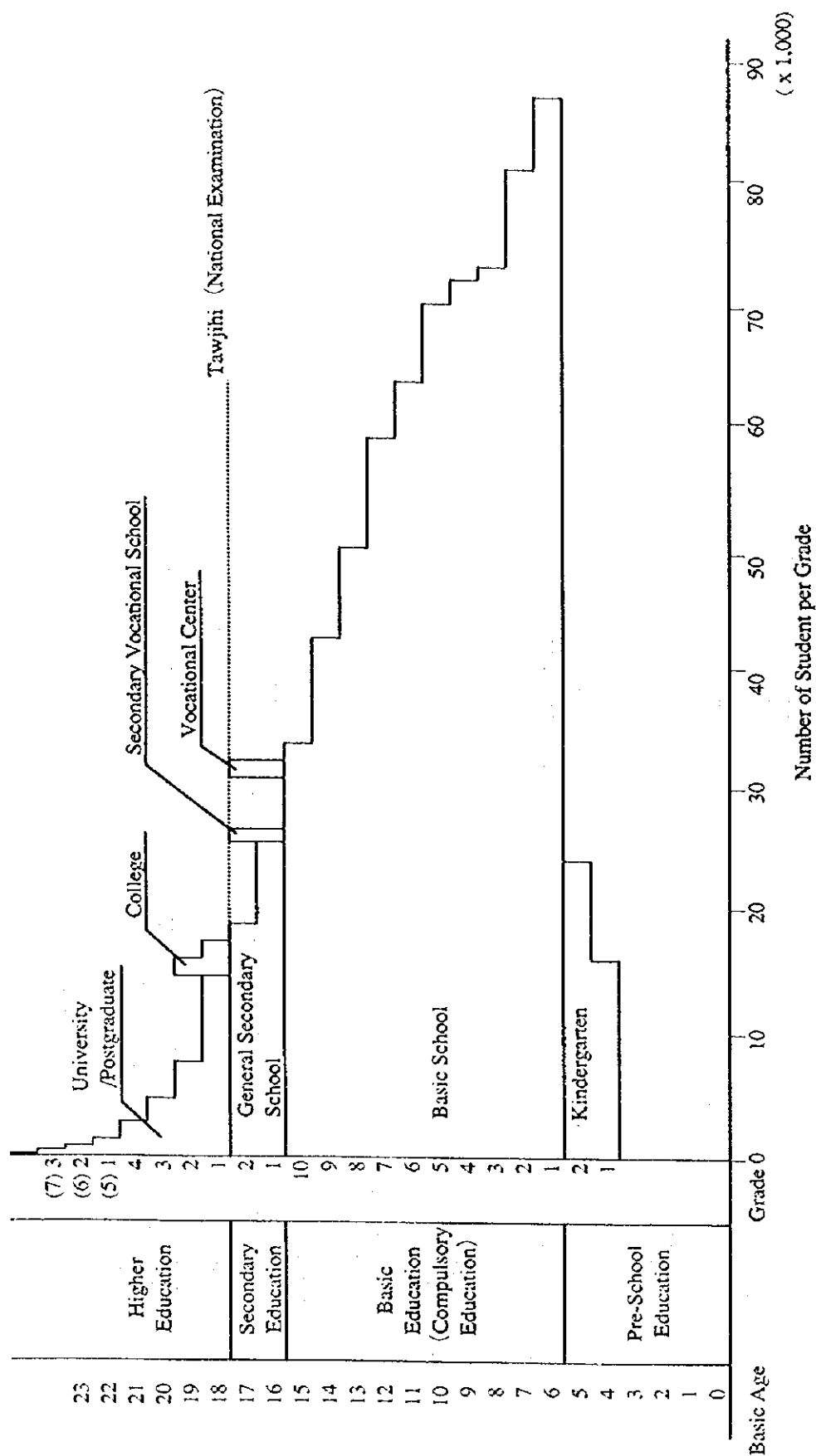
Appendices Table 4 Existing Equipment List

No.	Name	Q'ty	Year	Laboratory	Conditions	Donor
1.	Personnel Computer	13	1996	Pathology	Old, Low Capacity	Jerusalem Cigarette Company
2.	Computer Desk	10	1996	Pathology	Good	AusAID
3.	ADAM CD (Anatomy)	15	1997	Pathology	Good	AusAID
4.	Student Chair	10	1997	Pathology	老朽	AusAID
5.	Student Desk	3	1997	Pathology	Good	AusAID
6.	OHP	1	1997	Pathology	Good	AusAID
7.	Medical Bed	1	1997	Pathology	Good	AusAID
8.	Shelton Model	1	1997	Pathology	Good	AusAID
9.	Muscle Model	1	1997	Pathology	Old	AusAID
10.	Baby Internal Organs Model	1	1997	Pathology	Old	AusAID
11.	X-Ray View	1	1997	Pathology	Good	AusAID
12.	Bones	1	1997	Pathology	Old	Belong to Doctor
13.	Clinical Table (Office)	3	1997	Pathology	Old	AusAID
14.	Telephone	1	1997	Pathology	Good	AusAID
15.	Clinical Chair (Office)	1	1997	Pathology	Good	AusAID
16.	Air-conditioner	3	1997	Pathology	Good	AusAID
17.	Dead Body Refrigerator	1	1997	Pathology	Good	AusAID
18.	Dissecting Table	4	1997	Pathology	Good	AusAID
19.	Ventilator (Fume Hood)	1	1997	Pathology	Bad	AusAID
20.	Organs Box	1	1997	Pathology	Good	AusAID
21.	Dissecting Lamp	1	1997	Pathology	Unfactual	AusAID
22.	Bath (Dead Body)	1	1997	Pathology	Good	AusAID



Source : The Status of Health in Palestine Annual Report 1996 Palestine, June 1997

Appendices Fig. 1 Population Pyramid for the PA, 1996



Source : Education Statistical Year Book 1996/1997

Appendices Fig. 2 Educational Structure in the PA

Appendices 7 Reference

No.	Title	Publication	Issued by
1	Palestinian Development Plan 1998-2000 Summary Document	A4 Photocopy	Palestinian National Authority
2	Palestinian Development Plan 1998-2000 The Investment Program	A4 Photocopy	Palestinian National Authority
3	Palestinian Development Plan 1998-2000 Project List and Annexes	A4 Photocopy	Palestinian National Authority
4	The National Health Plan for the Palestinian People	A4 Photocopy	Palestinian National Authority - Ministry of Health
5	The Status of Health in Palestine Annual Report 1996 Palestine	A4 Print	Ministry of Health
6	The Health Survey in the West Bank and Gaza Main Findings	A4 Print	Palestinian Central Bureau of Statistics
7	Education Statistical Yearbook 1996 / 1997 Education Statistical Yearbook 1996 / 1997	A4 Print	Palestinian Central Bureau of Statistics
8	Al-Quds University Faculty of Medicine	A4 Print	College of Medicine, Al-Quds University
9	MAKASSED ISLAMIC CHARITABLE HOSPITAL	A4 Print	Makassed Islamic Charitable Society
10	The Demographic Survey in the West Bank and Gaza Strip Final Report	A4 Print	Palestinian Central Bureau of Statistics
11	Curriculum (Pathology, Biochemistry, Microbiology, Anatomy, Physiology, Pharmacology)	A4 Photocopy	College of Medicine, Al-Quds University
12	Time Table (1998/99)	A4 Photocopy	College of Medicine, Al-Quds University
13	Al-Quds University, Faculty of Medicine, Fifth Year Handbook 1998-1999	A4 Photocopy	College of Medicine, Al-Quds University
14	Faculty of Medicine Teaching Staff 1998-2000	A4 Photocopy	College of Medicine, Al-Quds University
15	Lecturer Curriculum Vitae	A4 Photocopy	College of Medicine, Al-Quds University
16	Al-Quds University Medical College External Examination in Pathology 1998 Report	A4 Photocopy	The University of Liverpool
17	Academic Calendar 1998/99 First Semester	A4 Photocopy	College of Medicine, Al-Quds University

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