

## **2. REFERENCES CONCERNING PROJECT BACKGROUND**



## Meteorological Conditions

### 1. Meteorological Conditions in Pakistan

#### 1) Atmospheric temperature

Highest mean temperature of year : 45°C

Lowest mean temperature of year : 0°C

Highest temperature recorded : 52°C

Lowest temperature recorded : -15°C

#### 2) Precipitation

Annual precipitation : 250 mm

#### 3) Constant wind

Summer : SW seasonal wind from the Arabian Sea

Winter : NE seasonal wind from the Karakorams

### 2. Meteorological Conditions in Lahore

	1	2	3	4	5	6	7	8	9	10	11	12	Year	Period of observ.
Monthly mean temp. (°C)	12.2	15.3	20.5	26.6	31.8	33.9	32.1	31.2	29.9	25.4	18.8	13.8	24.3	1981-1960
Monthly mean humid. (%)	73	61	55	43	37	43	66	73	66	64	70	75	61	1951-1960
Monthly mean precip.(mm)	31	23	24	16	12	38	122	123	80	9	3	11	492	1931-1960

Site of observation: 31'33"N, lat., 74'20"E, long., 214 m alt.

Demographic, Economic & Social Data for Various Countries, as of 1978

Indices	Japan	Korea	Thailand	Malaysia	Philip- pines	Indonesia	Fiji	Bangla- desh	Nepal	Sri Lanka	Pakistan	Jordan
Population in million	114.9	37	45.3	10.9	45.1	145	0.61	84.6	13.4	14.3	77	2.98
Population increase rate (%)	8.8	17	26.0	24.6	24	24	25a	26.5	21-23	20.1	30	32 <sup>a</sup>
% of population below 15 yrs.	24	39	43	40	43	43	40	46	42	39	47	52 <sup>a</sup>
Crude birth rate (CBR)	14.9	24	34.6	30.6	33	38	30 <sup>a</sup>	46.5	42-44	27.5	43	38 <sup>a</sup>
Crude death rate (CDR)	6.1	7	9	6	9	14	5 <sup>a</sup>	20.0	20-22	7.4	13	6 <sup>a</sup>
Infant death rate per 1,000 live births (year of estimation)	8 (1978)	38 (1975)	26 (1976)	35 (1975)	74 (1976)	140 (1970)	19 (1975)	140 (1975)	133 (1975)	44 (1976)	136 (1970)	15 (1977)
Life expectancy at birth (estim. 1975 - 1980)												
male	73.0 <sup>c</sup>	66.2	59.9 <sup>a</sup>	66.2 <sup>b</sup>	59.3 <sup>c</sup>	48.7	69.5	50 <sup>b</sup>	44.0	62.0	51.9	51.7 <sup>e</sup>
female	78.9 <sup>c</sup>	70.6	63.2 <sup>a</sup>	71.4 <sup>b</sup>	63.1 <sup>c</sup>	51.3	73.1	49 <sup>b</sup>	42.5	65.0	51.7	54.8 <sup>e</sup>
% of urban population	76 <sup>d</sup>	48	18	34	35	18	37	10	5	25	27	42 <sup>d</sup>
Literacy (%) (year of estimation)												
male	100	94	89	72	88	70	84	33	33	86	17	-
female (age group)	100	84 (6+)	75 (10+)	50 (10+)	87 (10+)	74 (6+)	74 (15+)	15 (5+)	5 (15+)	71 (10+)	17 (10+)	-
GDP per capita (US\$, 1977)	5,002 <sup>b</sup>	950	412	1,033	459	320	1,287	93	106	244	225	697
Energy consumption per capita (in kgs of coal)	3,679 <sup>b</sup>	1,020	308	578	329	218	403	32	11	106	181	527 <sup>b</sup>

Notes: a: Estim. 1977 c: Estim. 1978 e: Estim. 1970-1975 g: 1975  
b: Estim. 1976 d: Estim. 1974 f: 1980

(References) D.L. Norman, and E. Hofstetter, *Population and Family Planning Programs: A compendium of data through 1978*,  
New York, The Population Council, 1980; United Nations, *Statistical Yearbook*, 1978, New York: United Nations, 1979.

The number of Hospitals, Dispensaries, Tuberculosis Clinics, MCH Centres etc. in Urban and Rural areas

on 1st January, 1982

Province	U Hospitals		Dispensaries		Tuberculosis Clinics		MCH Centres		RHC Centres		Total	
	Nos	Beds	Nos	Beds	Nos	Beds	Nos	Beds	Nos	Beds	Nos	Beds
Punjab .....	U	212	19,364	386	349	53	10	371	15	-	-	1,022
	R	25	706	910	1,833	-	-	135	-	148	1,120	1,218
Sind .....	U	193	14,476	797	353	19	-	108	48	-	7	14,877
	R	4	396	496	49	-	-	23	18	63	734	1,197
N.W.F.P. ....	U	55	4,517	46	64	13	78	50	-	-	-	164
	R	88	3,161	536	288	3	20	77	-	47	250	751
Baluchistan .....	U	24	1,766	22	38	9	-	25	-	-	-	80
	R	12	248	266	172	1	-	28	-	25	250	332
Total .....	U	484	40,123	1,251	804	96	88	554	63	-	-	2,383
	R	129	4,511	2,208	2,342	4	20	263	18	283	2,354	2,872
		613	44,634	3,459	3,146	98	108	817	81	283	2,354	5,270
												50,323

Source: Annual Report of The  
Director General Health

The Incidence of Communicable Disease, Notifiable in Pakistan for the year 1981

S. No.	Disease	PUNJAB			SIND			N.W.F.P.			BALUCHISTAN			TOTAL		
		C	D	C	D	C	D	C	D	C	D	C	D	C	D	
1.	Cerebrospinal .....	154	7	487	4	701	5	-	-	-	-	-	-	1,342	16	
2.	Influenza .....	35	-	2,575	-	11,044	-	-	-	-	-	-	-	13,654	-	
3.	Poliomyelitis .....	222	-	204	27	34	-	-	-	-	-	-	-	460	27	
4.	Whooping Cough .....	1,968	-	20,691	4	8,754	-	-	-	-	-	-	-	31,413	4	
5.	Measles .....	989	17	8,812	3	2,938	13	5,715	-	-	-	-	-	18,454	33	
6.	Diphtheria .....	115	10	245	6	593	49	-	-	-	-	-	-	953	65	
7.	Chicken Pox .....	25	-	2,807	-	290	2	-	-	-	-	-	-	3,122	2	
8.	Leprosy .....	3,388	-	271	-	356	-	723	-	-	-	-	-	4,738	-	
9.	Puerperal Fever .....	-	-	610	12	24	-	-	-	-	-	-	-	634	12	
10.	Scarlet Fever .....	-	-	-	-	295	-	-	-	-	-	-	-	295	-	
11.	Sprue .....	-	-	-	-	912	-	-	-	-	-	-	-	912	-	
12.	Enteric Fever .....	10,224	21	26,336	-	6,077	67	23,735	25	66,372	113	-	-	-	-	
13.	Dysentery .....	71,851	27	114,055	2	47,584	-	31,997	64	265,487	93	-	-	-	-	
14.	Mumps .....	562	-	5,969	-	3,920	-	-	-	10,451	-	-	-	-	-	
15.	Erysipelas .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16.	Tuberculosis .....	25,437	241	55,733	322	18,364	17	8,028	21107	562	601	-	-	-	-	
17.	Tetanus .....	47	9	374	62	1,775	80	-	3	2,204	154	-	-	-	-	
18.	Neo-Natal Tetanus ...	-	-	642	146	-	-	-	-	642	146	-	-	642	146	

Source: Annual Report of The  
Director General Health

**Bed Strength and Staff Employed in Teaching Hospitals**

on 1st January, 1982

1 Medical College	2 Name of attached teaching hospital	3 Sex	4 Bed Strength	5 Staff position as of 1-1-1982			
				6 MBBS Doctors	7 Nursing Staff	8 Others	9 Specialists
King Edward Medical College, Lahore.	(i) Mayo Hospital, Lahore.	M	841	248	-	845	
		F	557	21	197	155	
		T	1,537 (139 common)	269	197	1000	
	(ii) Lady Wallingdon Hospital, Lahore.	M	-	5	-	142	
		F	235	36	156	71	
		T	235	41	156	213	
Fatima Jinnah Medical College, Lahore.	Sir Ganga Ram Hospital, Lahore.	M	190	12	-	292	
		F	254	103	72	87	
		T	444 (90 common)	115	72	379	
Allama Iqbal Medical College, Lahore.	Services Hospital Lahore.	M	231	55	-	383	
		F	185	15	78	73	
		T	436 (20 common)	70	78	456	
Postgraduate Medical Institute.	Lahore General Hospital, Lahore.	M	231	39	7	275	
		F	197	5	66	58	
		T	428	44	73	333	
Punjab Medical College, Faisalabad.	District Headquarters Hospital, Faisalabad.	M	310	42	7	173	
		F	194	4	50	34	
		T	504	46	57	207	

Medical College	Name of attached teaching hospital	Sex	Bed	Strength	Staff position as of 1-1-1982			
					Special-Lists	MBBS Doctors	Nursing Staff	Others
1	2	3	4	5	6	7	8	
Nishtar Medical College, Multan.	Nishtar Hospital, Multan.	M F T	455 461 916	23 4 27	73 91 164	- 185 185	587 179 766	
Quaid-e-Azam Medical College, Bahawalpur.	B.V. Hospital, Bahawalpur.	M F T	255 278 618	3 - 3	32 6 38	- 54 54	266 67 333	
Rawalpindi Medical College, Rawalpindi.	(i) District Headquarters Hospital, Rawalpindi.	M F T	82 49 131	7 2 9	9 5 14	- 20 20	82 23 105	
	(ii) Holy Family Hospital, Rawalpindi.	M F T	134 176 380	15 4 19	44 29 73	- 47 47	188 75 263	
	(iii) Rawalpindi General Hospital, Rawalpindi.	M F T	164 178 430	19 5 24	45 13 58	3 101 104	564 128 692	
Sind Medical College, Karachi.	Jinnah Postgraduate Medical Centre, Karachi.	M F T	336 467 938	51 13 64	50 39 89	249 255 504	745 220 965	
							38 children 97)	



Medical College	Name of attached teaching hospital	Sex	Bed	Strength	Staff position as of 1-1-1982			
					Special- MBBS lists	Doctors	Nursing Staff	Others
1	2	3	4	5	6	7	8	
Dow Medical College, Karachi	Civil Hospital, Karachi.	M	696	14	68	15	610	
		F	660	6	27	182	173	
		T	1,356	20	95	197	783	
Liaquat Medical College, Jamor.	Liaquat Medical College Hospital, Hyderabad.	M	581	-	50	-	588	
		F	427	-	18	66	120	
		T	1,008	-	68	66	708	
Nawabshah Medical College, Nawabshah.	Medical College Hospital, Nawabshah.	M	192	-	51	-	184	
		F	320	-	11	25	1	
		T	512	-	62	25	185	
Chandka Medical College, Larkana.	(i) Chandka Medical College Hospital, Larkana.	M	212	10	20	6	156	
		F	133	1	1	27	33	
		T	420	11	21	33	189	
	(ii) Shaikh Zaid Women Hospital, Larkana.	M	-	-	-	-	41	
		F	100	-	7	9	28	
		T	100	-	7	9	69	
	(iii) Nurad Wahan Charitable Hospital, Larkana.	M	-	-	-	-	-	
		F	-	-	-	-	-	
		T	4	-	-	-	-	
Khyber Medical College, Peshawar.	(i) Khyber Hospital, Peshawar.	M	414	-	41	14	345	
		F	321	-	8	97	137	
		T	735	-	49	111	682	

Medical College	Name of attached teaching hospital	Sex	Bed	Strength	Staff position as of 1-1-1982								
					1	2	3	4	5	6	7	8	
	(ii) Government Lady Reading Hospital, Peshawar.	M	630		25	40	15	126					
		F	185		3	20	161	317					
		T	815		28	60	176	443					
	District Headquarters Hospital, Abbottabad.	M	111		9	11	5	76					
		F	84		1	3	17	26					
		T	195		10	14	22	102					
	Sandeman (Prov) Hospital, Quetta.	M	211		24	38	14	21					
		F	189		2	11	51	21					
		T	400		26	49	65	42					

Source: Annual Report of The Director General Health

## Examinations for Medical Students in M.B., B.S. Classes

### 1. Class Examinations

2 Class examinations for 2nd & 3rd year classes

1 Class examination for 1st, 4th & 5th year classes

Pass percentage 33% for all classes

\*1st year class: Students failing in 1 or 2 subjects of class promotion test allowed another chance. Failure in second attempt prevents them from promotion.

Attendance less than 86% disqualifies students for promotion exams.

\*2nd year class: Failure in 1 or 2 subjects in both class exams disqualifies students for University Examination.

\*3rd year class: Subjects tested in 2 exams are:

1 Basic pharmacology 2 Forensic medicine & toxicology

3 General pathology 4 Principles of surgery 5 Clinical methods of medicine

All subjects compulsory; failure in one of the first two disqualifies students for University Examination.

\*4th year class: Subjects tested are:

1 Special pathology 2 Community medicine 3 Medicine 4 Surgery  
5 Midwifery & gynecology 6 Eye & E.N.T.

Passage of first two and one of the rest required for sitting in University Examination

\*5th year class: Subjects tested are:

1 Medicine etc. 2 Surgery 3 Midwifery & gynecology  
4 Eye & E.N.T. 5 Mental diseases

Passage of all 5 subjects required for sitting in University Examination

\*During the 3rd, 4th and 5th years of clinical experience, the progress of the students will be judged from the remarks by the respective professors on the Clinical Record Cards. A report of unsatisfactory work in any of the assignments will disqualify the student from taking the Final Professional Examination. If remanded students fulfill the required attendance and obtain satisfactory reports from professors, they are permitted to take University Examination.

## 2. University Examination

1st Professional M.B. ; B.S. Examination given at the end of 2nd year  
2nd Professional M.B. ; B.S. Examination given at the end of 3rd year  
3rd Professional M.B. ; B.S. Examination given at the end of 4th year  
Final Professional M.B. ; B.S. Examination given at the end of 5th year

\*Pass marks for Professional exams are 50% separately in theory and practical of each subject, for the clinical subjects in the final, 50% is essential to pass in practical.

\*Failure in Professional means failure in promotion until the exam cleared in full.

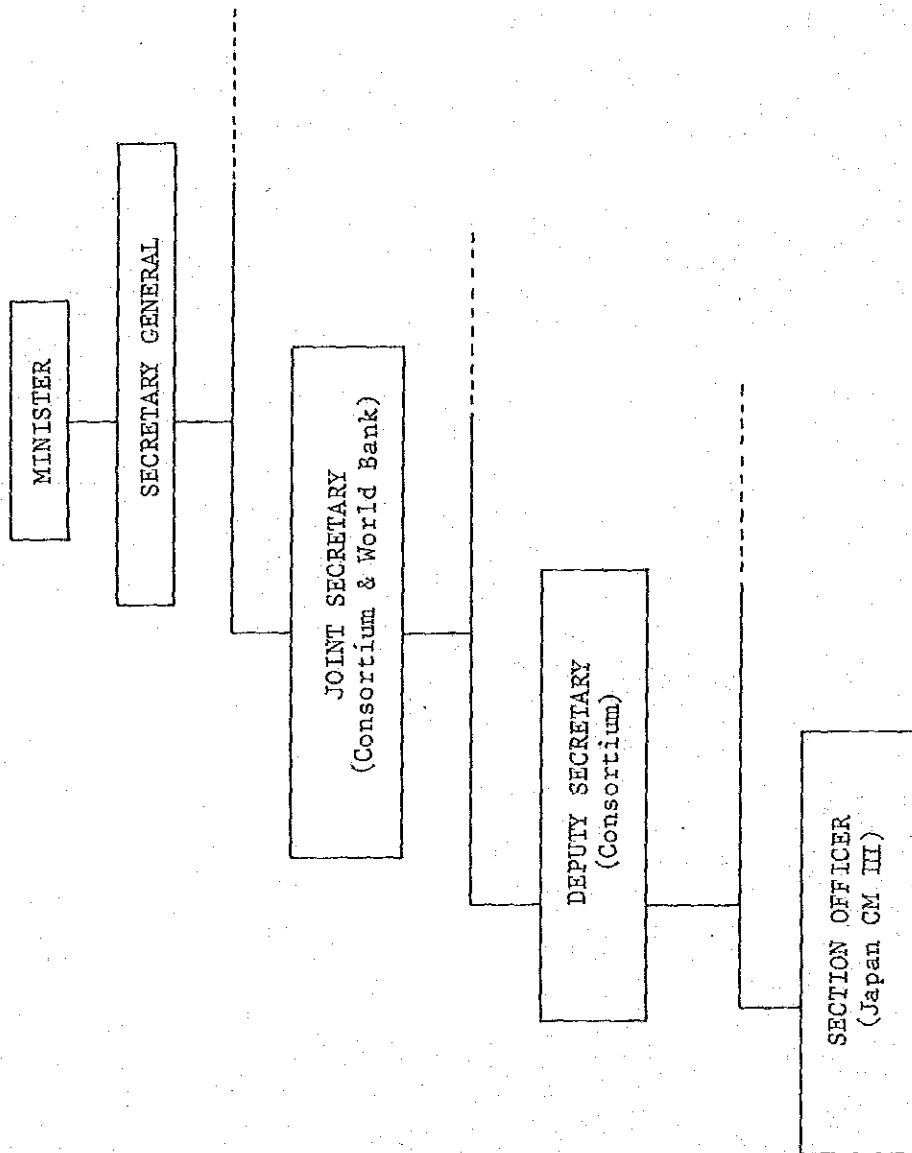
\*Students flunking in 1st Professional exam at 4 attempts in 4 years from admission expelled from College. Each annual exam and each supplementary exam considered separately as one attempt.

\*Principal can detain any student from taking Professional exams if he is reported to be unsatisfactory by any professor or if his character or conduct is regarded to be unsatisfactory in Principal's opinion.

\*Attendance of less than 75% to theory or practical of any subject tested disqualifies students from taking Professional exams.

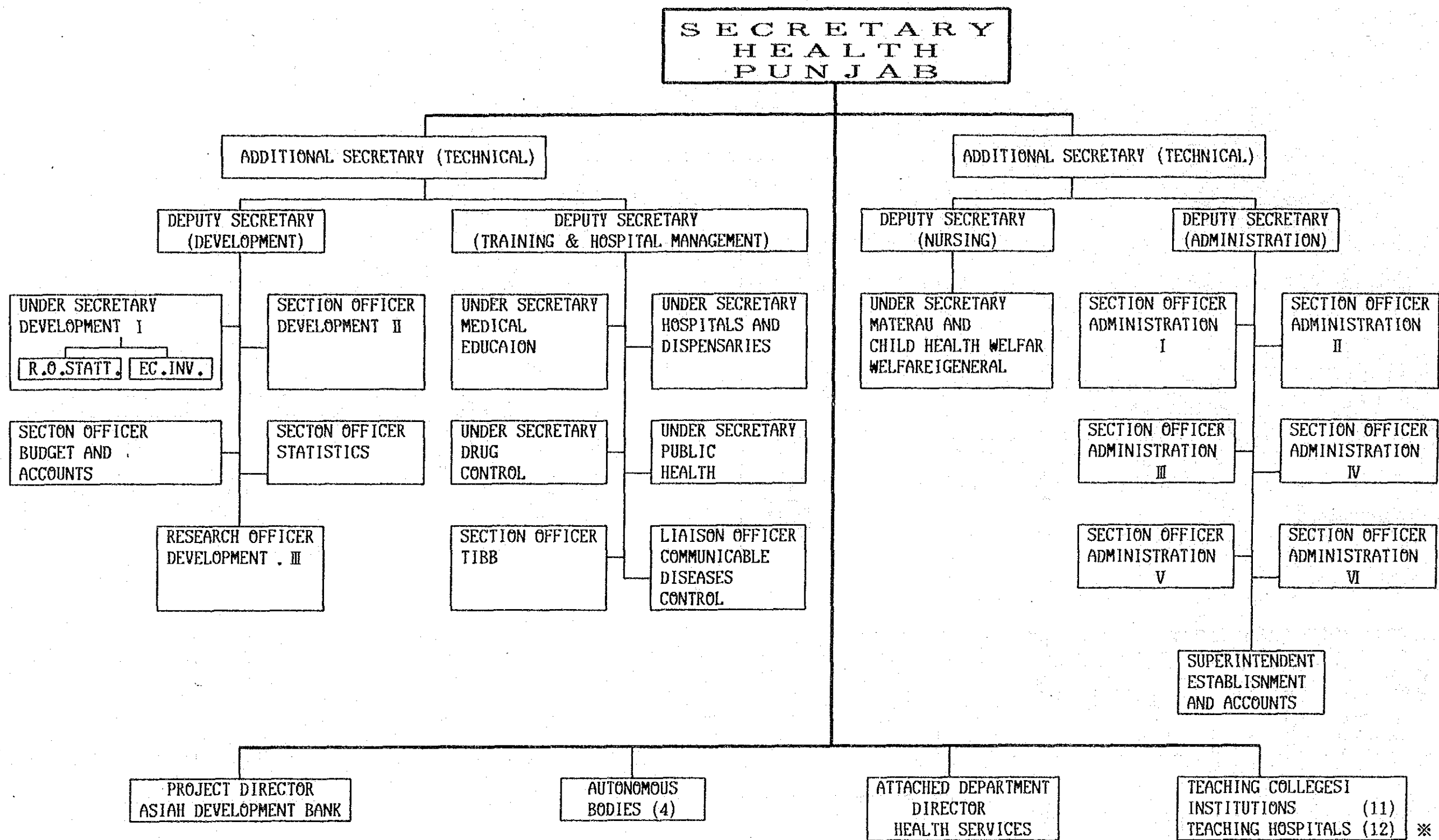
\*Students required to produce No Dues Chit from the Contractor of College and Hostel Tuck Shop, College Cashier, College Librarian, Hostel Warden, other libraries, etc. before taking Professional exams. Failure in doing so prevents students from taking the exams.

**Economic Affairs Division (EAD)**









ABBRIATIONS

R.O.STATT--RESEARCH OFFICER STATISTICS  
 EC.INC: --ECONOMIC XNVESTIGATOR

\* DIRECTLY UNDER THE CONTROL OF THE SECRETARY HEALTH



Present Organization Inclusive of  
Present Staff Department Category of  
Punjab Medical College Faisalabad

PRINCIPAL

PROFESSOR OF ANATOMY 1 NO			PROFESSOR OF PHYSIOLOGY 1 NO			PROFESSOR OF BIO CHEMISTR 1 NO			PROFESSOR OF PHARMACOLOGY 1 NO		
ASSOCIATE PROF 2 NOS	ASSTT PROF 5 NOS	DEMONS TRATORS 18 NOS	ASSOCIATE PROF 2 NOS	ASSTT PROF 2 NOS	DEMONS TRATORS 7 NOS	ASSOCIATE PROF 1 NOS	ASSTT PROF 1 NOS	DEMONS TRATORS 17 NOS	ASSOCIATE PROF 2 NOS	ASSTT PROF 3 NOS	DEMONS TRATORS 8 NOS
						BIO CHEMIST	1 NO		PHARMACUTICAL CHEMIST 1 NO		
OTHER STAFF TECHNICIANS 20			13			11			15		

PROFESSOR OF FORENSIC MEDICINE 1 NO			PROFESSOR OF COMMUNITY MEDICINE 1 NO			PROFESSOR OF PATHOLOGY 2 NO		
ASSOCIATE PROF	ASSTT PROF	DEMONS TRATORS 3 NOS	ASSOCIATE PROF 1 NOS	ASSTT PROF 2 NO	DEMONS TRATORS 6 NOS	ASSOCIATE PROF 1 NO	ASSTT PROF 5 NO	DEMONS TRATORS 14 NOS
MEDICAL SUP, DISTT, H, Q, H, TAKS LECTURES						MEDICAL TECHNOLOGIST 1NO		
			3			22		

PROFESSOR OF MEDICINE 3 NOS		PROFESSOR OF SURGERY 3 NO		PROFESSOR OF E. N. T. 1 NO		PROFESSOR OF EYE (OPHTHALMOLOGY) 1 NO		ROFESSOR OF GYNAE 2 NO		PROFESSOR OF EDIATRICS	
ASSOCIATE PROF 3 NOS	ASSTT PROF 3 NOS	ASSOCIATE PROF 3 NOS	ASSTT PROF 3 NOS	ASSOCIATE PROF 2 NOS	ASSTT PROF 1 NOS	ASSOCIATE PROF 1 NOS	ASSTT PROF 1 NOS	ASSOCIATE PROF 2 NOS	ASSTT PROF 2 NOS	ASSOCIATE PROF 1 NOS	ASSTT PROF 2 NOS

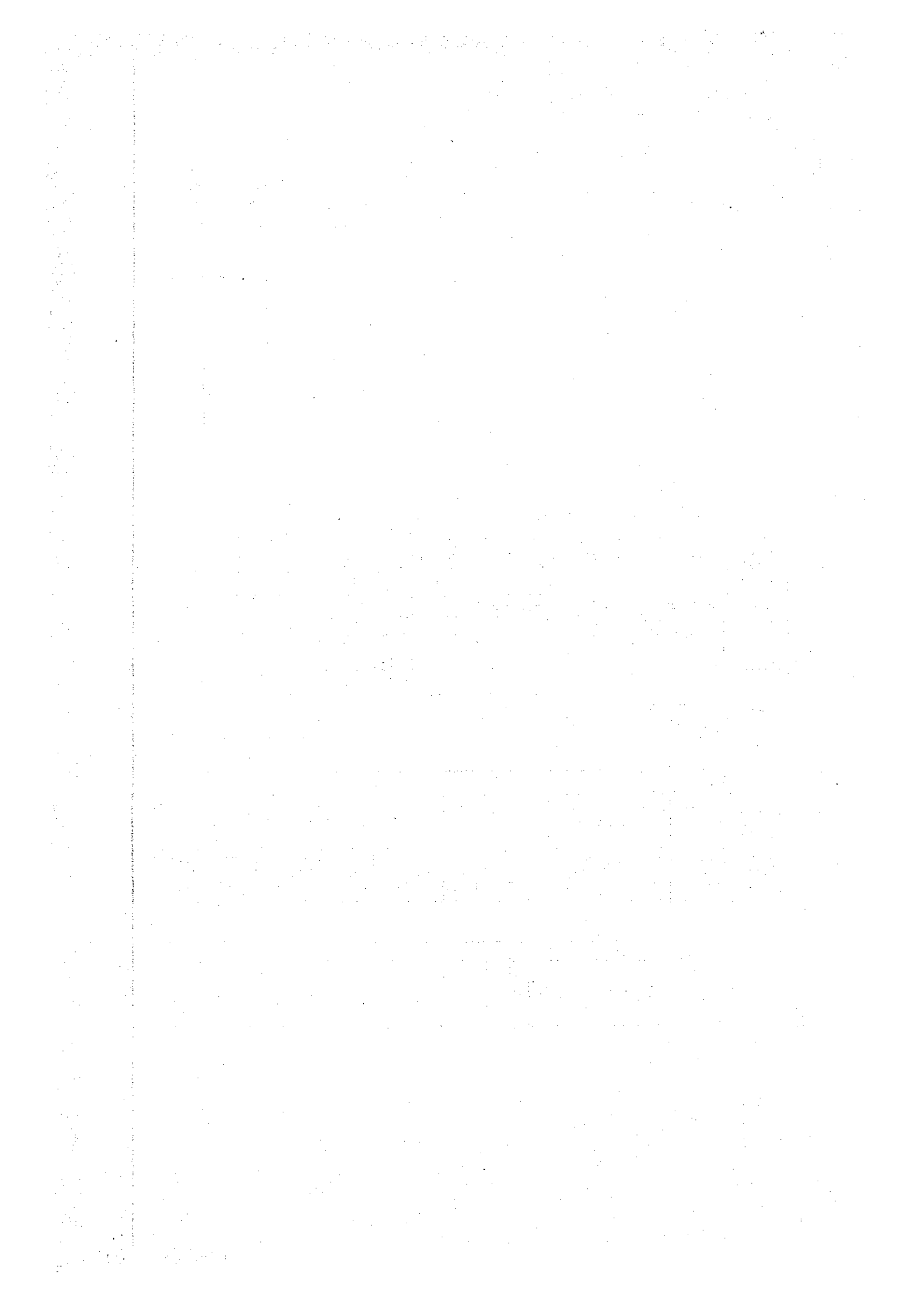
PROFESSOR OF ANAESTHESIA 1 NO		ASSOCIATE PROF OF ORHOPAEDIC 1 NO		ASSTT, PROF OF RADIOLOGY (DIAGNOSTIC) 1 ON		ASSTT, PROF OF RADIOLOGY (RADIOTHERAPY)		ASSTT, PROF OF T, B, AND CHEST		ASSTT, PROF OF DERMA TOLOGY		ASSTT, PROF OF DENTIS TRY ORAL AND SURGERY 1 NO		ASSTT, PROF OF PSYCHIATRY 1 NO	
ASSOCIATE PROF 1 NO	ASSTT PROF 1 NO							1 NO		1 NO		1 NO		1 NO	

BUDGET & ACCOUNT  
OFFICER  
1 NO

LIBRARIAN  
1 NO

DIRECTOR OF PHYSICAL  
EDUCATION  
1NO

ADMINISTRATIVE STAFF ALL CATEGORY OF STAFF  
120 NOS



Teaching Staff of Punjab Medical College, Faisalabad

ANATOMY DEPARTMENT.

Professor	Vacant
Associate Professor	Dr. Mansoob Ahmad Khan
Assistant Professor	Dr. Muzaffar Jalal Khan
Demonstrators	Dr. Liaquat Ali
	Dr. Muhammad Ashraf
	Dr. Muhammad Aslam
	Dr. Javed Zia
	Dr. Kaukab Shakeel
	Dr. Imtiaz Ahmad
	Dr. Khalid Pervez
	Dr. Muhammad Bilal
	Dr. Akmal Faiz Bhatti
	Dr. Tanveer Ahmad
	Dr. Arfan Mirza
	Dr. Khalid Mahmood Akhtar
	Dr. Sultan Aleem
	Dr. Niaz Ali Ahmad Khan
	Dr. Naeem Ullah Kahn
	Dr. Iftikhar Ahmad
	Dr. Azra Nazir
	Dr. Mrs. Bushra Tahir

PHYSIOLOGY DEPARTMENT.

Professor	Dr. Nasir A. Bashir
Associate Professor	Vacant
Assistant Professor	Dr. Mrs. Tasneem Cheema
Demonstrators	Dr. Altaf Hussain
	Dr. Manzoor Shahzad
	Dr. Muhammad Manzoor
	Dr. Liaquat Ali Khan
	Dr. Muhammad Ashraf
	Dr. Tahir Mahmood Mubarik
	Dr. Pervez Iqbal

BIOCHEMISTRY DEPARTMENT.

Professor	Dr. Muhammad Ali
Associate Professor	Vacant
Assistant Professor	Vacant
Demonstrators	Dr. Muhammad Shafiq
	Mr. Iftikhar Ahmad
	Mr. Muhammad Iqbal Tahir
	Dr. Pervez Azam Malik
	Dr. Pervez Nasir
	Dr. Rana Muhammad Tariq
Biochemist	Mr. Tariq Latif Butt

PHARMACOLOGY DEPARTMENT.

Professor	Dr. Muhammad Anis Mahju
Associate Professor	Vacant
Assistant Professor	Dr. Mrs. Kishwar Sultana
Demonstrators	Dr. Miss Nazir Begum
	Dr. Maqbool Ahmad
	Dr. Mrs. Hamida Sadozai
	Dr. Irshad Nabi
	Dr. Imtiaz Ahmad Warriach
	Dr. Syed Hussain Akhtar
	Dr. Muhammad Naeem Iqbal
	Dr. Saeed Anwar
Medical Technologist	Miss Farhat Begum
Pharmaceutical Chemist	Vacant

PATHOLOGY DEPARTMENT.

Professor	Dr. F.M. Chaudhary
Associate Professor	Dr. Naseer Ahmad Chaudhary
Assistant Professor	Dr. Abdul Rehman
	Dr. Janbaz Ahmad Khurshid
	Dr. Mrs. Fakhira Mahmood
Demonstrators	Dr. Muhammad Younis
	Dr. Iftikhar Hameed Mazhar
	Dr. Abdul Haleem Sahoota
	Dr. Saeed Akhtar Khan
	Dr. Isthiaq Ahmad
	Dr. Syed Asif Hayat
	Dr. Abbas Ali Khan
	Dr. Muhammad Saleem Zafar
	Dr. Aurang Zeb
	Dr. Mrs. Chazala Shaheen
	Dr. Mrs. Nafees Akhtar
	Dr. Mian Zahid Malik
	Mr. Abdul Haq
	Miss Zahida Naseem

COMMUNITY MEDICINE  
DEPARTMENT.

Professor	Vacant
Associate Professor	Dr. Shahid Hussain Bokhari
Assistant Professor	Dr. Muhammad Asghar
Demonstrators	Dr. Abdul Majeed
	Dr. Iftikhar Ahmad
	Dr. Muhammad Arif Ali
	Dr. Azhar Waheed
	Dr. Abdul Rashid Ch.
	Dr. Muhammad Naeem Akhtar

FORENSIC MEDICINE  
DEPARTMENT.

Assistant Professor	Vacant.
Demonstrators	Dr. Haji Muhammad Aslam
	Dr. Talat Mahmood
	Dr. Shagufta Mustafa

MEDICINE DEPARTMENT.

UNIT NO. 1.

Professor	Dr. S.A. Zaidi
Associate Professor	Dr. Khalid Latif
Assistant Professor	Dr. Muhammad Siddique

UNIT NO. 2.

Professor	Dr. Ali Ajwad Jafri
Associate Professor	Dr. Saleema Caisara
Assistant Professor	Dr. Riaz Ul Haq

UNIT NO. 3.

Professor	Dr. Naeem Ahmad
Associate Professor	Dr. Tufail Muhammad
Assistant Professor	Dr. Irshad Ul Haq

SURGERY DEPARTMENT.

UNIT NO. 1.

Professor	Dr. Muhammad Iqbal Khan
Associate Professor	Dr. A.G. Reehan
Assistant Professor	Vacant

UNIT NO. 2.

Professor	Dr. Masood Ahmad Butt
Associate Professor	Dr. Muhammad Shuja Tahir
Assistant Professor	Dr. Muhammad Sajjad Dar

UNIT NO. 3.

Professor	Dr. Wali Muhammad Saghir
Associate Professor	Dr. Makhshuf Ather
Assistant Professor	Dr. Riaz Dab Hussain

PAEDIATRICS DEPARTMENT.

Professor	Dr. Muhammad Zafar Ch.
Associate Professor	Dr. S.M. Iqbal
Assistant Professor	Dr. Muhammad Iqbal Sheikh

OPHTHALMOLOGY DEPARTMENT.

Professor	Dr. Riaz Mahmood Mahju
Associate Professor	Dr. Zia-Ud.-Din Ahmad
Assistant Professor	Dr. Mushtaq Ahmad

E.N.T. DEPARTMENT.

Professor	Dr. Sarfraz Hussain
Associate Professor	Dr. Muhammad Jamil Bhutta
	Dr. Muhammad Zahid Ameer
Assistant Professor	Vacant

MIDWIFERY /CYNAECOLOGY.

Professor	Dr. Mrs. Altaf Bashir
Associate Professor	Vacant
Assistant Professor	Dr. Mehnaz Roohi

ANAESTHESIA DEPARTMENT.

Professor	Dr. Muhammad Manzoor Ch.
Associate Professor	Vacant
Assistant Professor	Dr. Muhammad Ikram

T.B. AND CHEST DISEASES.

Associate Professor	Vacant
Assistant Professor	Dr. Sultan A. Abdullah

ORTHOPAEDIC DEPARTMENT.

Associate Professor	Dr. Naseer Ahmed Ch.
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PSYCHIATRY DEPARTMENT.

Assistant Professor	Dr. Shaukat Ali Zahid
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RADIOLOGY (DIAGNOSTIC).

Assistant Professor	Dr. Abdul Hamid Sabir
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RADIOLOGY (THERAPUTIC).

Assistant Professor	Dr. Ali Jawad Hussain
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ORAL SURGERY.

Assistant Professor	Dr. Sahfiq Ahmad
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DERMATOLOGY AND  
VENERAL DISEASES.

Assistant Professor	Dr. Syed Muhammad Azam
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Establishment of Punjab Medical College, Faisalabad, Pakistan

List of Engineering Staff

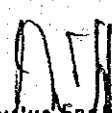
1. Engr. Muhammad Aslam Sheikh. Executive Engineer.

SUB DIVISIONAL OFFICERS.

1. Engr. Maraj Din. Sub Divisional Officer.  
2. Engr. Faqir Muhammad Khan. Sub Divisional Officer.  
3. Engr. Ajmal Kaleem Ullah. Sub Divisional Officer.  
4. Engr. Masood Akhtar. Sub Divisional Officer.

SUB ENGINEERS.

1. Mr. Abdul Sattar. Sub Engineer.  
2. Mehar Muhammad Nawaz. Sub Engineer.  
3. Mr. Muhammad Arshad. Sub Engineer.  
4. Mr. Muhammad Jaffar. Sub Engineer.  
5. Mr. Muhammad Saeed. Sub Engineer.  
6. Mr. Zahoor Ahmad. Sub Engineer.  
7. Mr. Ikram-ul-Haq. Sub Engineer.  
8. Mr. Muhammad Tariq Ismail. Sub Engineer.  
9. Mr. Muhammad Ramzan. Sub Engineer.  
10. Mr. Zulifqar Ali. Sub Engineer.  
11. Mr. Muhammad Ashraf Tabbsum. Sub Engineer.  
12. Mr. Fayyaz-ul-Haq. Sub Engineer.

  
Executive Engineer,  
Medical College Construction Division,  
FAISALABAD.

## Questionnaire

A-2

### General Information in Faisalabad

1. Number of Hospital and the Scale. List showing the No. of Hospitals with scale enclosed
  
2. Number of Medical Manpower including Technicians. 3844 [Inclusive of strength of Punjab Medical College & Allied Hospital, Faisalabad]
  
3. Education System for Medical Manpower.
 

	In DHQ Hospital Faisalabad.	Punjab Medical College, Faisalabad.
	Nursing School	Dispersers Classes.
	117 Students	50 Students
		1465 Students
  
4. Vital Statistics.
 

Description	No.	No. of Beds
Hospitals inclusive Tehsil Hqr. Hospitals.	16	1416
Rural Health Centre.	8	52
New Punjab Medical College & Allied Hospital, Faisalabad.	1	850
<b>Total Beds:</b>		<b>2318</b>
  
5. Morbidity & Mortality Patterns.
 

Total Indoor Patients in a year.					
Men	Women	Children	Total	Mortality.	Morbi-dity.
14970	10101	8030	33101	1240	2390
			<b>Mortality Percentage.</b>	<b>Morbidity Percentage.</b>	
			3.75 %	7.22 %	
  
6. Health Service Organization Health Organizational Chart enclosed
  
7. Budget for Health & Medical Services. Health & Medical Services Budget for 1984-85 (Punjab).  
(In Millions).

Development	= Rs. 166.560
Non-Development	= Rs. 964.137



A-3. Present Condition of Punjab Medical College (in detail).

- |    |  |   |   |
|----|--|---|---|
| 1. | Present Organization                   | ] |   |
|    |  | ] | Organization Chart                          |
| 2. | Present Staff (Department & Category). | ] | enclosed                                    |
| 3. | Existing Medical Equipment.            |   | List of Existing Medical Equipment enclosed |
| 4. | Education System.                      |   | Prospectus enclosed                         |
| 5. | Number of Students.                    |   | 1465  |
| 6. | Total College Budget.                  |   | 2.50 Crores (Per annum).                    |
| 7. | Total College running Cost.            |   | 2.50 Crores (Per annum).                    |

A-4. Surveys Project Hospital.

- |    |   |   |   |
|----|---|---|---|
| 1. | Constitution of Project Hospital (Department, Number of Beds & etc.). |   | Details are enclosed  |
| 2. | Chart of Organization of this Hospital.                               | ] |   |
|    |   | ] | Hospital Organization Chart   |
| 3. | Number of all personnel & that of each position.                      | ] | enclosed  |
| 4. | Organization to perform the Project.                                  |   | Principal of Punjab Medical College has been appointed as Project Director in addition to his own duties to perform the Project "Establishment of Punjab Medical College and Allied Hospital, Faisalabad". Executing Agency of this Project is Building Department, Govt. of the Punjab and Consultants - University of Engineering & Technology, Lahore. |
| 5. | Number of Out-Patients supposed.                                      |   | 6 lacs (Old & New) per annum.   |
| 6. | Number of In-patients supposed each Department.                       |   | 5 days stay = 62050 pts.<br>in all Departments.<br>7 days stay = 44078 pts.<br>in all Departments.  |
| 7. | Number of Operations per day.   |   | 225 Operations per day.   |

A-4. (cont'd)

8.	Kinds of Operations supposed.	Major Operations	Minor Operations
		25,000 per annum.	45,000 per annum.
9.	Number of Operations per day.	80 Operations per day.	145 Operations per day.
10.	Kinds of Laboratory Tests.	All sorts of tests to be done in New Hospital.	
11.	Quantity consumed X-ray film per day.	300 Nos per day.	
12.	Kinds of X-ray Operations.	X-ray	Chest
		"	Abdomen
		"	I.V.P. (kidney)
		"	Barium Meals.
		"	Bones & Joints.
		"	Screening & Spot Film.
		"	Skull.
		"	Barium Enema.
		"	Hystrosalpingography.
		"	Chole Cysto graphy etc.
13.	Total Hospital Income expected.		Rs. 30.00 lacs per annum.
14.	Total Hospital running Cost supposed.		Rs. 2.00 Crore per annum.
15.	Maintenance Plan. (Number of personnel, Budget, method for getting medicines spare-parts and consumable etc.)	No. of Personnel.	Budget Rs.
		660	24.750 Million (per annum).
			<u>Details</u>
			<u>In Millions</u>
		Hospitals & College Buildings maintenance.	Rs. 5.655
		Equipment & Furniture maintenance	Rs. 0.300
		Hospital salaries.	Rs.15.765

A-4. (cont'd)

15.

Hospital Contingencies etc. & Misc.	Rs. 3.030
	<hr/>
	Rs. 24.750

As regards method for getting medicine, spare parts and consumable etc., bulk supply of medicine, equipment, spare parts and consumable etc; is arranged through Government medical stores Depot and Government of the Punjab Industry & Mineral Development Department Lahore, under prescribed purchase procedure.

A-5. Future Plan College Hospital.

Facility expansion,  
Medical Equipments Plan,  
Education Plan & etc.  
Drawings for the future  
plan, if any.

As per phasing of Medical Equipment Plan & Development Plan laid down in P.C.I. (approved by the Govt;) of this Project. As regards Education plan, Para Medical School is our future plan and it's approval is under process. Also, Punjab Medic College Allied Hospital, Faisalabad is Teaching Hospital for our College Students.

### Existing Medical Equipments for College & Hospital

No.	Description of Equipment	College	Hospital
1.	Analytical Balance Electric	12 Nos.	-
2.	Laboratory Centrifuge Media (Machine) Hettich 10+14	24 Nos.	-
3.	Microscope complete Binocular Karlkaps	167 Nos.	-
4.	Microtone Knife	2 Nos.	-
5.	Section Cutting Outfit Complete	2 Nos.	-
6.	Distillation Apparatus	4 Nos.	-
7.	Microscope Dissecting	7 Nos.	-
8.	Sterilizer Hot Air 16x14 <sup>1</sup> / <sub>2</sub> x10" Non-Electric	1 No.	-
9.	Sterilizer for Syring	2 Nos.	-
10.	B.P. Apparatus	84 Nos.	-
11.	B.P. Apparatus (Aneroid Type)	14 Nos.	-
12.	pH. Meter (Universal)	10 Nos.	-
13.	Photo Electric Colorimeter	4 Nos.	-
14.	Shadowless Light	1 No.	-
15.	Incubator	4 Nos.	-
16.	Hemocytometer	93 Nos.	-
17.	Hemoglobinometer	85 Nos.	-
18.	Copper Water Batch Non-Electric	109 Nos.	-
19.	Water Batch Electric USA	2 Nos.	-
20.	Light Floor Adjustable	3 Nos.	-
21.	Perimeter English Perimeter	11 Nos.	-
22.	Resuscitator	1 No.	-
23.	Electric Cardiography (ECG) Apparatus	2 Nos.	5 Nos.
24.	Trial Frame Set	1 No.	-
25.	Micro Hematocrit	1 No.	-
26.	Spectrophotometer	5 Nos.	-
27.	Ultraviolet Infra Red Light	1 No.	-
28.	Centrifuge (High Speed)	1 No.	-
29.	Water Bath Imported Electric	1 No.	-
30.	Water Bath Copper Electric	4 Nos.	-
31.	Irrigator	1 No.	-
32.	Ultra Violet Lamp	2 Nos.	-
33.	Amplifire	1 No.	-

No.	Description of Equipment	College	Hospital
34.	Microphone	1 No.	-
35.	pH-Millivolt Test Unit Cat EUA 20-12	1 No.	-
36.	Triple Beam Balance with Weight	1 No.	-
37.	Oscilloscope Cat - 10, 18 Wide Bank 5"+3"	2 Nos.	-
38.	Battery Eliminator	2 Nos.	-
39.	Molecular Models Set Automatic	7 Nos.	-
40.	Amplify Fire Transformer Universal	1 No.	-
41.	Oven Momert Model TV	8 Nos.	-
42.	Electrometer	28 Nos.	-
43.	Over Head Projector Sreffin	6 Nos.	2 Nos.
44.	Aneroid Barrrometer 85 mm Dial	1 No.	-
45.	Ammeter Panet Type 0-40 Amp-Ac/Dc	1 No.	-
46.	Micrometer 0-300	1 No.	-
47.	Duplicator Gestetner Model 420 with Stand	2 Nos.	-
48.	Kymograph and Stimulator CS SRI	99 Nos.	-
49.	Muffle Furnace	1 No.	-
50.	Generator Electric Honda Type	4 Nos.	-
51.	Camera Asahi Pentax and Mamiya	2 Nos.	-
52.	Episcope	10 Nos.	2 Nos.
53.	Dry Photo Copier	1 No.	-
54.	Film Splizer 16 MM Kodak	1 No.	-
55.	Film Sound Projector 16 MM	6 Nos.	-
56.	Pulse Recorder	2 Nos.	1 No.
57.	Micro Projector	3 Nos.	-
58.	Slide Projector 35 MM	8 Nos.	5 Nos.
59.	Camera Lucida German Made	2 Nos.	-
60.	Research Microscope German Made	1 No.	-
61.	Bipolar Electrodes	1 No.	-
62.	Enlarger 2B Size with Lens & Mosking	1 No.	-
63.	Flame Photometer KEL 100 English Made	2 Nos.	-
64.	Projector Ruller Iron for Over Head Projector	2 Nos.	-
65.	Film Screen 12'	1 No.	-
66.	Telephoto Lens 200 MM	1 No.	-
67.	Auto 3 Tele Courunt	1 No.	-
68.	Bellows Unit Microphotography Magnification	1 No.	-
69.	Gestetner Stencil Scanning Machine	1 No.	-

No.	Description of Equipment	College	Hospital
70.	Bell & Howelle Speaker for 16 MM Projector	1 No.	-
71.	Singer Radiant Screen Size 52 x 70	1 No.	-
72.	Akai Tape Recorder	1 No.	-
73.	Kodak Glazing Machine	2 Nos.	-
74.	Amplifire National Electric & Battery	2 Nos.	-
75.	Microphone Japan	2 Nos.	-
76.	Battery Charger	1 No.	-
77.	Speaker 10" China with Box	1 No.	-
78.	Heartscope (Electronic) Stethoscope	1 No.	4 Nos.
79.	Multi Channel Electronic Model MS-500	-	4 Nos.
80.	Pulse Monitor	1 No.	1 No.
81.	Electronic Syphygomonometer	1 No.	1 No.
82.	Electronic Thermometer	1 No.	1 No.
83.	Bonn (Automatic) B.P	1 No.	-
84.	Bonn SP (Automatic) with Pulse Rate Indication	1 No.	1 No.
85.	Camera Mamiya RB 67 Professional Single Lens	1 No.	-
86.	Lab. Refractrometer	4 Nos.	-
87.	Infra Red Heater	4 Nos.	-
88.	Gas Analyzer	2 Nos.	-
89.	Section Apparatus	4 Nos.	-
90.	Lab. Shaker	1 No.	-
91.	Operating Microscope (Bar Microscope along with Camera)	1 No.	-
92.	Exercycle Imported	3 Nos.	-
93.	Cardiscope	-	1 No.
94.	Vica Test	1 No.	-
95.	Incubator	1 No.	-
96.	Water Distillator Apparatus	7 Nos.	-
97.	OX-208 & 207 Egg Incubator	2 Nos.	-
98.	Oven	1 No.	-
99.	Balance Technical without Weight	6 Nos.	-
100.	Pharmacy Balance without Weight	4 Nos.	-
101.	Autoclave Horezental and Matron 520	3 Nos.	-
102.	Still PV No. 101	1 No.	-
103.	Provision of Shappting & Pully Unit Kymograph	4 Nos.	-
104.	Student Microscope Monocular	39 Nos.	-

No.	Description of Equipment	College	Hospital
105.	Colour Processing Kit	1 No.	-
106.	Screen Projection, Size 125x125, 110x110, 155x115	3 Nos.	-
107.	Stethograph S. Quality	35 Nos.	-
108.	Douglass Bags Superior Quality	10 Nos.	-
109.	Vital Capacity Apparatus	9 Nos.	-
110.	Cabin 2000 & Slido Projector 35 MM	-	2 Nos.
111.	Kowa RC-2 Fundust Camera Complete	-	1 set.
112.	Colour VTR Camera with Zoom Lens	1 set.	-
113.	Colour VCTV Monitor	2 sets.	-
114.	Teaching Films, 16MM	110 Nos.	-
115.	Microtome with knife Fuji Japan, 230-11 Minot type Rotary Microtome Model 815, Erma Microtome Cat. No.08-200	5 Nos.	-
116.	Deionizer Mark 17 with Cartridge, Mark-8 Imported	2 Nos.	-
117.	Microscope for Hospital & Clinical Lab.	14 Nos.	1 No.
118.	Movi Camera 16 mm Pallard Bolox with Three Lenses	1 No.	-
119.	Stethoscope China	54 Nos.	-
120.	Weighing Machine German	4 Nos.	-
121.	Develop Photocopying Machine, Sharfax Plain Paper Model SF-770	2 Nos.	-
122.	Reneotronic Stencil Cutting Machine Model 800 S.	1 No.	-
123.	Reneo Duplicator Model 865	1 No.	-
124.	Embedding Section Mounting Appratus	1 No.	-
125.	Griffen Lab. Autoclave B.S.2646 & Portable	18 Nos.	4 Nos.
126.	Tissue Flootation Bath Cat No.6663	1 No.	-
127.	Sterilizer	3 Nos.	1 No.
128.	418/8163 C.F. Palmer Stimulus Isolation Unit	2 Nos.	-
129.	C.E. Palmer CE PTU Compreheansive Electro-physiological Teaching Unit 418/8136	32 Nos.	-
130.	C.S. Palmer Smoking Stands 413/1251	5 Nos.	-
131.	Piston Recorder 16 ml Capacity C.S. Palmer 413/3051	5 Nos.	-
132.	Isotonic Transducer 411/1326, Transducer Amplifire 418/8144 6 Nos. each	12 Nos.	-
133.	Single Channel Stimulator of Operation 200/250 V, Cat. No.418/8171/01 C.F. Palmer.	2 Nos.	-

<u>No.</u>	<u>Description of Equipment</u>	<u>College</u>	<u>Hospital</u>
134.	C.F. Palmer Hampostead Operating Table No.415/5032	1 No.	-
135.	C.P. Palmer Brodie Operating Table 415/5040/CI	1 No.	-
136.	C.F.P. Guinea Pig Table 415/5044/c1	2 Nos.	-
137.	Animal Ventilator 415/5255/c1	1 No.	-
138.	C.F.P. Tidalx Cumulative Spirometer 415/5274/01 with Accessories	2 Nos.	-
139.	C.F.P. Student Spirometer 415/5405	4 Nos.	-
140.	Fukuda Denshi Phonoc ARD-iodraph Model DP-25 Complete with Accessories	-	1 No.
141.	Yoshida's Para Dental with Air Compressor F-18	-	1 Unit.
142.	Siemes Theracard D Complete with Accessories	-	1 No.
143.	Ophthalmoscope	-	3 Nos.
144.	Bosch Top Loading Precision Electric Balance Mettler Precision 440,4000	4 Nos.	-
145.	Xerux-350 Microfilm Reader with Xerox-350 Microfich Attachment Service Kit including 2 Extra Projection Lamp	1 set.	-
146.	Sigmoidoscope	-	2 Nos.
147.	Cystoscope China	-	1 No.
148.	Weighing Machine Fitted with Height Measure	-	1 No.
149.	Boyle International Having Pin Index Yokes Comprising N.F./Med-20 Complete with Accessories	-	2 Nos.
150.	Streak Retinoscope	-	1 No.
151.	Baby Indubator P.V. No.416	-	3 Nos.
152.	Portable Inhaler P.V. No. B-434	-	3 Nos.
153.	Automatic Folding Screen Size 72"x53", 72"x96"x72"	2 Nos.	1 No.
154.	Video Tape Recorder Akai VT-110 Complete	1 No.	-
155.	Still Galss	8 Nos.	-
156.	Dental Motor Chair	-	1 No.
157.	Aeromat-T Air Turbine Unit	-	1 No.
158.	Audometer Double	-	1 No.
159.	Coutery Unit	-	5 Nos.
160.	Aneasthesin Apparatus	-	1 No.
161.	Andrometer	-	1 No.
162.	Ultrasooni Type 300	-	1 No.



No.	Description of Equipment	College	Hospital
163.	Oxygen Tent	-	1 No.
164.	Extramalis Bath	2 Nos.	-
165.	Arm Hydro Massage & Leg Hydro Massage	2 Nos.	-
166.	Arcuter Bath Grate	1 No.	-
167.	Heart and Head Cooler	1 No.	-
168.	Thermostate Incubator	5 Nos.	-
169.	Lead Apprim	-	4 Nos.
170.	Applanation Tonometer Electric Clement Clark UK	-	1 No.
171.	Self Recording Perimeter with 100 Charts English	-	1 No.
172.	Aika's Continuous Operation Section Unit Model S-5	-	1 No.
173.	Aika Suction Unit Delux Model Japan	-	1 No.
174.	Toitus Japan Cervilator	-	1 No.
175.	Toitus Japan Fetal Heart Heat Delecto Doppler	-	1 No.
176.	Toitus Japan Suction Unit Model S	-	1 No.
177.	Toitus Japan Kymograph Model M-10	-	1 No.
178.	Lucky Cassette Projection Model 2500-5000	2 Nos.	-
179.	T.V. Microscope Tajiri Complete	1 No.	-
180.	Drager Tiberious Aneasthetic Appratus	-	1 No.
181.	Cryoton (Optikon) Unit for Cryo Surgery	-	1 No.
182.	Map-102/Med/19 Boc Manleg Pulmovement Model MPT	-	1 No.
183.	Map-79/Med/19 Vaculizer Suction Pump Theatre	-	1 No.
184.	Map-4/Med-20 Spatuler Machkintosh Laragorcope with Adult and Child Blades	-	1 No.
185.	Coulter Counter ZF System for RAC. WBC. MCY. HCT. HCB	1 set.	-
186.	Ultra Violet Lamp PV-No. H-64	1 No.	-
187.	Memmert Universal Oven Sterilizer Model TV 30V	1 No.	-
188.	Memmert Universal Oven Sterilizer Model TV 40V	1 No.	-
189.	Cral Zeis Research Microscope Cat No.472588	1 No.	-
190.	Microwave Diathermy Apparatus Model MT-250	-	1 No.
191.	Erma Japan Photoelectric Colorimeter .A.B	1 No.	-
192.	High Frequency Cautory Set	-	1 No.
193.	Aikas Portable Suction Unit	-	1 No.
194.	Water Bath with Thermostate 12 racks	3 Nos.	-
195.	CT-700 Lovibond 1000 Complete G.K. English	1 No.	-

<u>No.</u>	<u>Description of Equipment</u>	<u>College</u>	<u>Hospital</u>
196.	123-602 pH Meter Digital Beckman & Markson	3 Nos.	-
197.	SAB-2807 Basic Outfit for Thirlayer Chromatography (Shanden)	1 No.	-
198.	Water Still 3 Liter Capacity	1 No.	-
199.	Viberamix Pipettes Shaker	2 Nos.	-
200.	Spin Mark with Hot Plate	1 No.	-
201.	Projection Attachment Inclusive of Dynoscope	3 sets.	-
202.	Erma Blood Cell Counter Model ACM 20 Cat No. K-2700	1 No.	-
203.	Spetroscope Hand Type Direct Vision Gallenkamp	60 Nos.	-
204.	Animal Balance Salter	2 Nos.	-
205.	Student Polarimeter USSR	2 Nos.	-
206.	Ultra Rac Fraction Collector for 220 Volts 50 Cycle Consisting of Main Unit and Control Unit complete with Accessories	1 set.	-
207.	PSH-300-A Polarimeter Griffin Half Shadow with one 200 ml Solution Tube O.K. English with spares Accessories	1 No.	-
208.	VB-104 Vacuum Pump Edwards FS 50,220	1 No.	-
209.	FH-500 Flame analyzer GK Complete	2 Nos.	-
210.	Perfusion Apparatus Cat No.5035 Sri England	2 Nos.	-
211.	Ventilator for Small Animals	2 Nos.	-
212.	Universal Organ Bath Assembly	2 Nos.	-
213.	Slow Infusion Apparatus	2 Nos.	-
214.	Stimulator Square Wave Constant Voltage and 0-10 & 0-100	1 No.	-
215.	Spirometer 9 litres Capacity Multipurpose Type	1 No.	-
216.	Plethysmograph Water Filled Fareasm Type	1 No.	-
217.	Finger Plethysmograph SRI Cat No.5174	1 No.	-
218.	Solid State Mixer Amplifire Microphone, Sound System Complete	10 sets.	1 set.
219.	Semi Automatic Autoclave	1 No.	-
220.	New Promar Projection Microscope Leitz Germany	1 No.	-
221.	R-112 Microzone Scanning Densitometer Model	1 No.	-
222.	Machine for Distilling Water Table Type Complete	1 No.	-
223.	Lab. Microscope Zenith II Beck Kassol Made in Japan	60 Nos.	-

<u>No.</u>	<u>Description of Equipment</u>	<u>College</u>	<u>Hospital</u>
224.	Automatic Tissue Processor Model RH-12 Ears per At	3 sets.	-
225.	Hydraulic Operating Table for Surgical Unit KTR	-	6 Nos.
226.	Dry Gas Meter	3 Nos.	-
227.	Piber Gastroscope	-	1 set.
228.	RH-150 Endoscope	-	1 No.
229.	Fiber Optic Ryall's Lathotriposcope	1 No.	-
230.	Fibreroptic Mecarthy's Resectoscope	1 set.	-
231.	Formalin Gas Sterilizer	1 No.	-
232.	Minto Microwave Diathermy	-	1 No.
233.	Minto Electric Traction Apparatus	-	1 No.
234.	Operating Table (USSR)	-	1 No.
235.	Silent Film Projector Bauer T 82 Suitable for 8 mm	1 No.	-
236.	Multi Channel Electronic Stathoscope	-	4 sets.
237.	Fukuda Channel Direct Writing Electrocardio Graph	-	1 set.
238.	Dental X-ray Unit Mobile Stand Type Model X-5 Panpase-E	-	1 No.
239.	Adematic Control System Airturbing Complete	-	1 No.
240.	Cat No. AG-130-01 M. Menglimi Renal Riopsy with Stillelli Cat No. AG-130-07A ditto But 100 M Long outside Diameter Cat No. AG-130-12S ditto 120 mm long x 1.9 mm outside Diameter English 2 Nos. each	-	6 Nos.
241.	Eye Equipment under German Loan Vide Contract No. AID/36206/GL 153744 dt. 19.6.79 Cost Rs 1,04,775/-	-	1 set.
242.	Ultra Violet Lamp	6 Nos.	1 No.
243.	Trailer Mounted Sterilizer & Distillation Apparatus	1 No.	-
244.	Incubator Accommodat Approximate Gallen	5 Nos.	-
245.	Pantoscope Complete	-	1 No.
246.	Treatment Unit for Doctors Round with Accessories	2 sets.	-
247.	Ploni Meter Model 7050 PH/MV Complete	1 set.	-
248.	Electrophoresis (Shenden) Vovan with Accessories	2 sets.	-
249.	28A 2A Cassette A.V. Matric Film Projector with Accessories	5 Nos.	-

No.	Description of Equipment	College	Hospital
250.	Rotary Clasing Machine with other Photography Material	1 set.	-
251.	Electro Surgical Unit combined with Fiberoptic Light Source	1 set.	-
252.	Colorimeter Cont	1 No.	-
253.	Combi Analyzer RT. 33	1 set.	-
254.	Electronic Computer for the Determination of Acid Base Status Type R 4 with Accessories	1 No.	-
255.	Atomiser	-	1 No.
256.	Lectoscope	-	1 No.
257.	Silver Brand Model TX 110 Cassette Recorder	17 Nos.	3 Nos.
258.	V.C.R. Model 3330 RG JVC complete with Accessories	2 Nos.	-
259.	6520-B, Recorder with Instion with Accessories	1 No.	-
260.	Lucky Class Room Type Automatic Folding Projection Screen Size 70x70"	4 Nos.	3 Nos.
261.	Autoclave Herayano	1 No.	-
262.	MT 355-PF-Photo Slit Lamp Microscope	1 No.	1 No.
263.	Water Still 4 litre	2 Nos.	-
264.	Ectonus MK 4 E.C.T. Ectomustim MK 4 E.C.T. Duopulse MK 4 E.C.T. & Ectron MK 4 E.C.T. with Spare Accessories.	2 Nos.	2 Nos.
265.	Microphotographic with Accessories	1 No.	-
266.	Leitz Sialux 20 EB Microscope Complete	1 No.	-
267.	Hot Air Sterilizer	1 No.	-
268.	Vacuum Oven 1000 ml, Double Hot Plate	1 No.	-
269.	Air Turbine Handpiece No.626	-	1 No.
270.	Dual Channel Coagulometer Saitron 333	1 No.	-
271.	Digital Bilirubinometer Model BM II	1 No.	-
272.	Paraffin Oven with Double Door Stand	1 No.	-
273.	Automatic Microtome Knife Sharpner Model No. MW 72	1 No.	-
274.	Slide Warm Water Bath Tissue Floating Model Ps M Sakur	1 No.	-
275.	Universal Suction Pump Tube EUS	-	1 No.
276.	Satascope Operating Microscope Floor Stand Type	-	-
277.	Airo VP 2000 Barometric Ventilator	-	1 No.
278.	Shaker (for Tissue Fixation Model VSJ 10B Japan)	1 No.	-

<u>No.</u>	<u>Description of Equipment</u>	<u>College</u>	<u>Hospital</u>
279.	Automatic Staining Machine Model RSH 50	2 Nos.	-
280.	Electromedical Diagnostic Apparatus	1 No.	-
281.	Lancetron Type G-500 Apparatus for Electro-surgery Operating	-	1 No.
282.	Surgical Suction Device Mobile Unit	-	5 Nos.
283.	Universal Operating Table	-	2 Nos.
284.	Cermical Ultra Lamp Type VS-320	4 Nos.	-
285.	Contract No. AID/34195 Piston Compressor with Tank Dental Unit complete all Accessories and Instruments	-	1 set.
286.	Contract No. AID/34292/GL/53790 dt. 19.12.83 Breast Pump, Infant Warmer, Hebulizer (OX-120), Infant Weight Scale, Baby Stethoscope, Larygoscope, Phototherpy Unit, Resuscitation Bag, Secretion Suction Unit & Tracheal Catheter (CM-60)	-	1 set.
287.	Clotronic Elvi-535	1 No.	-
288.	Photoattachment with Camera for use with Operation Microscope with Accessories	1 No.	-
289.	Carl Zeiss OPMI 6 S Operation Microscope with Accessories	1 No.	-
290.	80 Channel UHF Pocket Paging System with Accessories	1 No.	-
291.	Echocardiograph Apparatus Model No. M-101 Complete	1 No.	-
292.	Telemetry System Portable Bedside Monitor Model. 6211	-	1 No.
293.	Magsetic Stirrer	2 No.	-
294.	Larrngoscope	-	1 No.
295.	Rotary BVA Porater	1 No.	-
296.	Malacard 400 & Malacard Defi Control	2 Nos.	-
297.	Omni Operating Table	-	1 No.
298.	Universal Double Spirometer	1 No.	-
299.	Autospiro Analyzer Model ASC-1000	-	1 No.
300.	Vacuum Rotar Automatic Tissue Processor	1 No.	-
301.	Freezing Microtomo	1 No.	-
302.	Operation Microscope Complete with T.V. VCR Cassette	1 set.	-
303.	Bed Side Monitor	-	2 Nos.
304.	Suction Pump	3 Nos.	4 Nos.

No.	Description of Equipment	College	Hospital
305.	Otorhinolaryngology Opmi 6 S Operating Microscope with Photo Attachment (Zeiss)	1 set.	-
306.	140-10-201 Neocare Air Controlled Incubator with Standard Accessories	-	1 No.
307.	060-10-00 Resuscitaire Model 60 with Accessories	-	1 No.
308.	Refrigerated Centrifuge	2 Nos.	-
309.	Vickers Dualchannel analyser D-300	1 set.	-
310.	Vice Contract No. 36763/TCBSUKAB/57034 Phtertak Multisken.with Accessories	1 No.	-
311.	Titertek Multi Wash, with Accessories	1 No.	-
312.	Titertek Autodrop, with Accessories	1 No.	-
313.	Bioflow (Laminar Air Flow) with Accessories	1 No.	-
314.	Caral Zfiss Microscope Standard with Micro Projectionist Equipment	2 set.	-
315.	Carl Zeiss Microscope Standard 18 with coarse and fine focusing rack and pinion condenser carrier, limb top with devetail	1 set.	-
316.	Photomicroscope	1 No.	-
317.	Chromatography Apparatus AID/37900/TCP-Sukab/58938 dt. 24.3.82. complete	1 set.	-
318.	Non-electric Delux Multi Tip Cryo-Surgical System to Operate On N2O Or CO2 Model MT-600	-	1 set.
319.	Photo Colposcope CL-11 with all Accessories	-	1 set.
320.	Air Conditioner 5 Tons and 10 Tons	4 Nos.	-
321.	Tissue Floating Bath	1 No.	-
322.	Odam's Portable Defibrillator for Cardiao Monitoring	-	1 No.
323.	Narcotrace-80 Data Acquisition System 6 Channel, Physiograph as per AT	1 set.	-
324.	Olympus Microscope Model BHS-312 Complte per A.T	2 Nos.	-
325.	Dianonics CV-3400 R Phased Array Ultra SONOGRAPH Apparatus by Sonotron U.K. as per A.T. vide Cont. No. K/39143/FEX/61571	1 set.	-
326.	Digital Exposure/Exposure rate meter Model UK 92 suitable for clinical use in radiotherapy as per A.T. No. K/38920/F-EX/61908	1 set.	-
327.	Mortuary Refrigerator Type LKZ A2 STANDARD Model as per A.T. Cont: No.K/39485/FEX/61305 dt.17.1.83	6 Nos.	-
328.	Fukuda M.E.4-Channel ECO Telemetry System Complete	3 set.	-

Japanese Dealers' Agencies in Pakistan & Items Dealt in

Agencies	Items dealt in	No. of client dealers
A	Apparatuses and instruments for radiological, supersonic, medical electronic, surgical, obstetric, physiotherapeutic and respiratory purposes	7
B	Apparatuses and instruments for otorhinolaryngological, radiological and dental purposes; endoscopes; sterilizers; clinical testing apparatuses	6
C	Surgical apparatuses and instruments; shadowless lamps, medical electronic apparatuses	3
D	Dental apparatuses & supplies; endoscopes; centrifuges; medical electronic apparatuses; clinical testing apparatuses; medical apparatuses in general	7
E	Kitchen utensils; ward implements; rehabilitation appliances; endoscopes; shadowless lamps; apparatuses and instruments for photological, dental and surgical purposes	9
F	Obstetrical and gynecological purposes Medical electronic apparatuses; rehabilitation appliances	2
G	Apparatuses and instruments for photological, otorhinolaryngological, ophthalmological and other medical purposes; sterilizers	7
H	Apparatuses and instruments for surgical, medical electronic and dental purposes	3
Others		a few





### **3. BIBLIOGRAPHIES**



## Bibliographies

1. The Sixth Five Year Plan 1983-88, Planning Commission, Government of Pakistan, 1983.
2. Annual Report of the Director General Health, Ministry of Health, Special Education and Social Welfare, Government of Pakistan, 1984.
3. Statistics of Hospitals and Dispensaries, etc. in the Punjab for the Year 1981, Provincial Health Directorate, Punjab, Lahore, 1984.
4. Prospectus of the Government Medical Colleges in the Punjab, Health Department, Government of the Punjab, 1984.
5. Map of Pakistan, 4th edition, Ferozsons (Lahore), 1984.
6. Map of Punjab, 4th edition, Ferozsons (Lahore), 1984.
7. Tariq Riaz: Pakistan: The Energy Sector, Ferozsons (Lahore), 1984.
8. M.L. Qureshi: Planning and Development in Pakistan, Review and Alternatives 1947-1982, Vanguard Books (Lahore), 1984.
9. M. Iliyas and M.A. Ansari (ed.): Community Medicine, vol. 1, vol. 2, Sind Book Bank (Karachi), 1982.
10. T.T.H. Bukhari: Notes on Community Medicine, vol. I, vol. II, Islami Jamiat-Talaba (Faisalabad), 1982.
11. Pakistan Hotel & Restaurant Guide, Maulai Enterprise (Karachi), 1984.
12. Journey Through PAKISTAN, 1982.





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