

資 料

- 1 合同評価報告書
- 2 S G P G I 収支状況
- 3 S G P G I 第 1 期計画の現状
- 4 放射線科活動報告書
- 5 内分泌外科活動報告書
- 6 医療機材一覧表
- 7 延長にかかる討議議事録 (R / D)

1 合同評価報告書

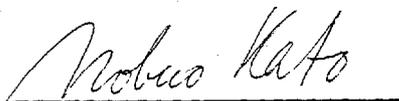
JOINT EVALUATION REPORT
ON THE SANJAY GANDHI POST-GRADUATE INSTITUTE OF
MEDICAL SCIENCES PROJECT
PREPARED JOINTLY BY
THE EVALUATION TEAM OF JAPAN INTERNATIONAL COOPERATION AGENCY
AND THE CONCERNED AUTHORITIES OF THE GOVERNMENT OF INDIA

The Japanese Evaluation Team, organised by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Dr. Nobuo Kato, has been dispatched to India from 2nd of March to 11th of March, 1997 in order to evaluate the implementation and achievements of the project of technical cooperation for the Sanjay Gandhi Post-Graduate Institute of Medical Sciences (hereinafter referred to as "the Project") under the record of discussions signed on the 30th of June, 1995.

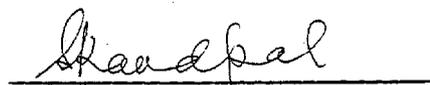
The Evaluation Team made visits at SGPGI and had a series of discussions with the Indian authorities concerned.

The results of the discussions are attached herewith.

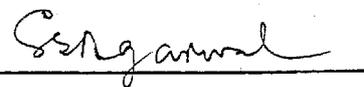
Lucknow, the 7th of March, 1997



Dr. Nobuo Kato
Leader,
Japanese Evaluation Team,
Japan International Cooperation Agency,
JICA



Mrs. Sumita Kandpal
Principal Secretary,
Medical Education,
Health & Family Welfare,
Government of Uttar Pradesh



Dr. S.S. Agarwal
Director,
Sanjay Gandhi Post-Graduate
Institute of Medical Sciences

CONTENTS

- I. List of Participants
 - 1. Indian Side
 - 2. Japanese Side

- II. Background of the Project

- III. Planned Objectives

- IV. Progress of the Project Activities
 - 1. Dispatch of Japanese Experts
 - 2. Training of Indian Counterparts in Japan
 - 3. Spare parts of existing equipment provided by JICA
 - 4. Seminars, Conferences, and Workshops
 - 5. Publications
 - 6. Post-graduate Education
 - 7. Hospital Activities
 - 8. Staff Position
 - 9. Summary of Income & Expenditure

- V. The Results of the Project

- VI. Recommendations

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I. LIST OF PARTICIPANTS

1. Indian Side

(i) Government of Uttar Pradesh

Mr. B. Sahay, IAS.

Smt. S. Kandpal, IAS

Sri V.K. Mittal, IAS.

Dr. Ramesh Yadav, IAS

Chief Secretary to the Government
of U.P. & President, SGPGI
Principal Secretary, Medical Health
& Family Welfare and Medical
Education Department
Principal Secretary, Finance
Department
Secretary, Medical Education
Department

(ii)

SGPGI

Dr. S.S. Agarwal

Dr. M. Bhandari

Dr. R.B. Gujral

Sri Chandra Prakash

Dr. R.K. Sharma

Dr. S.R. Naik

Dr. A. Ayyagari

Dr. T.N. Dhole

Dr. Janak Kishore

Dr. V.K. Jain

Dr. S.K. Mishra

Dr. A. Mithal

Dr. R.V. Phadke

Dr. C.M. Pandey

Dr. A.K. Shukla

Director

Director Designated

Dean

Additional Director

Incharge Hospital Administration

Head of Department, Gastroenterology

Head of Department, Microbiology

Additional Professor, Microbiology

Associate Professor, Microbiology

Head of Department, Neurosurgery

Head of Department, Endocrinology

(Surgery)

Additional Professor, Endocrinology

Additional Professor, Radiology

Head of Department, Bio-statistics

Incharge Bio-medical

Dr. N.K. Gupta

2. Japanese Side

(i) Evaluation Team

Dr. Nobuo Kato	President Nagoya University
Dr. Takeo Ishigaki	Professor, Nagoya University School of Medicine
Dr. Hiroomi Funahashi	Asso. Prof. Nagoya University School of Medicine
Dr. Hiroshi Hayashi	Asso. Prof. Nagoya University School of Medicine
Dr. Suguru Inao	Asstt. Prof. Nagoya University School of Medicine
Ms. Yasuko Kitahara	Staff, First Medical Cooperation Division, Medical Cooperation Department, JICA.

(ii) Japanese Experts

Long Term Experts

Prof. Takeshi Hoshino,	Team Leader
Mr. Katsumi Ohara	Project Coordinator
Mr. Shoichi Shimizu	Expert in Medical Engineering

Short Term Expert

Dr. K. Maruyama	Expert in Diagnostic Radiology
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(iii) JICA India Office

Mr. Toshiaki Tanaka	Deputy Resident Representative
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II. BACKGROUND OF THE PROJECT

The Sanjay Gandhi Post-Graduate Institute of Medical Sciences (SGPGIMS) was established by the Government of Uttar Pradesh with the full support of the Government of India.

The Institute was started with the objectives of creating a centre of excellence for providing medical care, education and research facilities of the highest order in the field of medical sciences in the existing superspecialities and such others, as may emerge in future. The objectives were also to develop patterns of teaching in postgraduate medical education in superspecialities, and to provide for training in paramedical and allied field. In order to materialize these objectives, a large number of sophisticated equipment was necessary, but most of the equipment was not manufactured in India, therefore, the Government of India requested official assistance from the Government of Japan.

In 1986 and 1987, the Government of Japan extended a Grant-in-Aid worth 3.32 billion Yen for procurement of the equipment.

Later for the purpose of promoting research and clinical activities as a tertiary medical centre and as a post-graduate Institute, the Government of India requested the Government of Japan to render technical assistance.

On February 15, 1990, the Record of Discussions was signed and a five-year technical cooperation project started on August 1, 1990, and completed on July 31, 1995.

For five years, technical cooperation activities had been implemented in the following fields :

- (1) Special Research Departments
 - (a) Neurology and Neurosurgery
 - (b) Cardiology and Cardiovascular Surgery
 - (c) Gastroenterology - Medical and Surgical
 - (d) Urology & Nephrology
 - (e) Endocrinology - Medical and Surgical
 - (f) Genetics and Immunology

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(2) Other Investigative Departments

- (a) Diagnostic Radiology and Nuclear Medicine
- (b) Anesthesiology
- (c) Pathology including Clinical Laboratory Medicine
- (d) Microbiology including Parasitology
- (e) Transfusion Medicine
- (f) Radiotherapy

In total, JICA had dispatched 48 Experts to India and had accepted 23 counterparts for training in Japan, and had provided equipment necessary for the smooth implementation of the Project.

Later a series of discussions were held between JICA and the Indian authorities concerned regarding the extension of the duration of the project, and 2-year extension was recommended. On June 30, 1995, the Record of Discussions was signed and on August 1, 1995, the Extended Technical Cooperation commenced.



III. PLANNED OBJECTIVES

The objectives of the Project are;

- (1) to promote research activities at the Institute as a tertiary medical center and as a postgraduate institute of medical sciences;
- (2) to promote patient care activities in the specialities at the Institute;
- (3) to promote appropriate transfer of technology related to sophisticated medical equipment;
- (4) to provide an infrastructure and resource base which would enable SGPGI to acquire leadership in the fields described below; and
- (5) to implement other activities mutually agreed upon as necessary.

To achieve the above mentioned objectives, technical cooperation activities have been implemented in the following fields during last two years.

1. Virology
2. Neurosurgery
3. Endocrinology
4. Diagnostic Radiology
5. Medical Information Technology
6. Vascular Microsurgery
7. Bio-medical Engineering

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IV. PROGRESS OF THE PROJECT ACTIVITIES

1. Dispatch of Japanese Experts

LONG TERM EXPERTS

Designation	No.	Name	Period
Project Leader	01	Dr. TAKESHI HOSHINO	96.05.07 - 97.07.31
Project Coordinator	01	Mr. KATSUMI OHARA	95.07.13 - 97.07.31
Biomedical Engineer	01	Mr. SHOICHI SHIMIZU	96.07.25 - 97.07.31

SHORT TERM EXPERTS

Speciality	No.	Name	Period
Virology	05	Dr. SHIN ISOMURA	96.01.04 - 96.01.11
		Dr. SHIN ISOMURA	96.08.01 - 96.08.11
		Dr. NAOHIKO YAMAMOTO	96.01.04 - 96.01.09
		Dr. NAOHIKO YAMAMOTO	96.07.28 - 96.08.11
		Dr. NAOHIKO YAMAMOTO	To be dispatched.
Neurosurgery	02	Dr. TSUTOMU HARADA	96.01.19 - 96.04.18
		Dr. YOSHIO SUZUKI	96.11.30 - 97.01.02
Endocrinology	07	Dr. HIROOMI FUNAHASHI	96.01.16 - 96.01.30
		Dr. HIROOMI FUNAHASHI	To be dispatched.
		Dr. MASAKI WADA	96.03.08 - 96.04.05
		Dr. TSUNEO IMAI	96.10.15 - 96.11.22
		Dr. MASAHIDE TAKAHASHI	To be dispatched.
		Dr. SHINICHIRO TAKAI	To be dispatched.
Diagnostic Radiology	02	Dr. TSUNEO ISHIGUCHI	95.11.13 - 95.12.20
		Dr. KUNIHIRO MARUYAMA	97.02.07 - 97.04.01
Medical Information	01	Dr. MITSURU IKEDA	To be dispatched.
Vascular Microsurgery	01	Dr. SHIGERU ESAKI	To be dispatched.
Biomedical Engineering	01	Mr. TAMOTSU NOZAKI	95.11.08 - 95.11.22
Project Monitoring	04	Dr. TAKESHI HOSHINO	95.07.13 - 95.07.25
		Dr. TAKESHI HOSHINO	95.11.02 - 95.12.01
		Dr. TAKESHI HOSHINO	96.01.04 - 96.01.30
		Dr. KIYOHIDE KOJIMA	95.10.12 - 95.11.05

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IV. 2. Training of Indian Counterparts in Japan

Sl.	Name	Field	Period
1.	Dr. Janak Kishore	Virology	96.06.09 - 96.12.01
2.	Dr. A. Mithal	Endocrinology	96.08.11 - 96.10.01
3.	Mr. S.B. Singh	Medical Engineering	96.09.03 - 97.03.10
4.	Mr. Y. Kumar	Medical Engineering	To be arranged

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IV. 3 Spare parts of existing equipment provided by JICA

Sl. No.	Arrival Date	Price in YEN	Main Items
1.	To be delivered	15,600,000	Spare parts under Technical Cooperation Programme
2.	To be delivered	18,500,000	Spare parts under Grant-in-Aid Programme

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IV. 4. Seminars, Conferences and Workshop:

Organised by JICA

96.01.23 - 96.01.24	INDO-JAPANESE WORKSHOP ON PARATHYROID SURGERY	SGPGIMS, LUCKNOW.
97.05.22 - 97.05.24	INDO-JAPANESE WORKSHOP ON THYROID CANCER	SGPGIMS, LUCKNOW.

Organised by SGPGI :

International

95.11.17 - 95.11.19	IVth Indo-US Anaesthesiology Update-1995.	Department of Anaesthesiology SGPGIMS, LUCKNOW.
96.09.02 - 96.09.05	The VI th Surgical Gastroenterology Week International Update-1996.	Department of Surgical Gastro- enterology
96.12.28 - 96.12.29	Indo-US CME on "Current Concepts of Microbial Infection in Immuno- compromised Host"	Department of Microbiology, SGPGI, Lucknow

National

95.11.17 - 95.11.18	Workshop on Difficult Airway Management	Department of Anaesthesiology SGPGI, Lucknow.
95.12.28 - 95.12.31	XVIIth Annual Conference of the Association of Radiation Oncologist of India	Department of Radiology, SGPGI, Lucknow.
96.10.12 - 96.10.13	VIth Annual Conference of Pediatric Neurosurgery	Department of Neurosurgery SGPGI, Lucknow.
96.11.30 - 96.12.01	National Workshop on Infrastructure, Manpower and Education in Nuclear Medicine	Department of Nuclear Medicine SGPGI, Lucknow

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IV. 5. Publications

Scientific Publications by SGPGIMS from 1990 through 1996

	1990	1991	1992	1993	1994	1995	1996
Original	08	25	45	79	75	109	162*
Case Report	03	04	04	10	39	26	*
Review	03	02	02	05	07	07	*
Miscellaneous	-	03	01	01	20	28	*
Total	14	34	52	95	141	170	

(* Information from International Medical Information Center, Tokyo, is awaited.)

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IV. 6.

Post-graduate Education:

Number of students in SGPPI

Speciality		89	90	91	92	93	94	95	96	97
Neurology	D.M.	-	-	03	04	02	02	02	02	02
	Ph.D.	-	-	01	-	-	-	-	-	-
Neurosurgery	M.Ch.	02	01	01	02	02	01	02	04	04
Cardiology	D.M.	-	01	05	03	03	02	02	02	02
C.V.T.S.	M.Ch.	-	01	03	03	02	02	02	02	02
Gastroenterology	D.M.	02	02	02	03	03	01	02	01	02
	Ph.D.	-	-	01	-	-	-	-	-	-
Surgical Gastroenterology	M.Ch.	-	-	03	03	02	02	01	01	01
Urology	M.Ch.	02	02	04	02	03	02	02	02	02
Nephrology	D.M.	-	02	03	03	03	02	01	02	02
Genetics	D.M.	-	01	02	02	02	02	02	-	02
	Ph.D.	02	-	02	-	-	-	02	01	04
Immunology	D.M.	01	-	02	03	01	02	02	02	02
	Ph.D.	-	02	02	01	-	-	02	02	01
Endocrinology (Med.)	D.M.	-	-	03	01	02	01	02	02	02
	Ph.D.	01	01	-	-	-	-	01	01	-
Endocrinology Surgery	PDCC	-	-	-	-	-	-	-	-	02
Radiotherapy	M.D.	-	-	-	02	01	-	-	-	02
Transfusion Medicine	M.D.	-	01	01	01	01	-	01	-	02
	Ph.D.	-	-	01	-	-	-	-	-	-
Nuclear Medicine	M.D.	-	01	01	01	01	-	02	-	01
	Ph.D.	-	-	01	-	-	-	-	-	-
Radiology	M.D.	-	-	-	04	01	-	02	02	02
	Ph.D.	-	-	01	-	-	-	-	-	-
Neuro-Anaesthesiology	PDCC	-	-	-	-	-	01	-	02	02
Cardiac-Anaesthesiology	PDCC	-	-	-	-	-	02	02	02	02
Microbiology	M.D.	-	-	-	-	-	-	01	01	02
	Ph.D.	-	-	01	-	-	-	-	-	-
Life Sciences	Ph.D.	-	-	01	-	-	-	-	-	-
Renal Pathology	PDCC	-	-	-	-	-	-	-	-	01

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Placement of SGPGL Alumni June 1996

	Academic			Private		Others
	1*	2*	3*	1#	2#	
Urology	3	2	-	3	4	1
Nephrology	4	-	-	4	1	2
Gastroenterology	1	1	4	1	1	3
Surgical Gastro.	3	-	1	1	1	3
Neurology	1	-	1	6	1	-
Neurosurgery	-	-	3	2	3	-
Immunology	2	3	-	-	-	1
Genetics	1	2	-	-	-	-
CVTS	2	-	1	2	1	-
Cardiology	4	-	-	2	3	3
Endocrinology	1	1	1	-	1	1
Radiotherapy	-	1	-	1	-	-
Trans. Med.	1	1	-	-	-	1
Radiodiagnosis	-	-	-	-	2	-
Nuclear Medicine	1	-	-	-	-	1
PhD	2	6	1	-	1	1
Total (113)	26	17	12	22	19	17

1* Faculty appointment in India
 2* Fellow abroad
 3* Pool officer

1# Organised hospitals
 2# Individual consultants

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IV. 7. Hospital Activities:

COMPERATIVE STATEMENT SHOWING PROGRESS OF THE SANJAY GANDHI POST GRADUATE
INSTITUTE OF MEDICAL SCIENCES, FROM THE YEAR 1989-90 TO SEPTEMBER 1997

NAME OF DEPT. (1)	OPERATION/INVESTIGATION (2)	1989-90 (3)	1990-91 (4)	1991-92 (5)	1992-93 (6)	1993-94 (7)	1994-95 (8)	1995-96 (9)	1996-97 (10)
									1.4.96 TO 30.9.96
OPD	New Registrations	19841	26729	24323	26488	28181	26729	24295	12438
	Old Case Admission	29163	31227	48438	92359	85576	84764	72996	35349
		-	5826	5183	5687	10372	8644	8217	5623
Neurology	Electroencephalography	885	853	897	756	637	1358	1098	557
	Electromyography	638	546	514	566	417	789	875	342
	Evoked Potentials	381	488	435	646	258	161	328	217
Neuro-Surgery	Operations	689	782	939	933	794	742	637	735 (upto-15-1-97)
Urology	Operations								
	Endoscopic	844	1025	788	1223	1718	1185	1238	458
	Open Surgery	218	335	733	599	673	437	558	239
	Renal Transplant	6	22	24	66	62	71	93	58
	Lithotripsy (New Cases)	378	229	275	316	78	76	-	25
Nephrology	Hemodialysis	2956	3657	4181	4779	5898	5578	5881	2114
	Peritoneal	68	188	113	145	175	652	724	359
	Kidney Biopsy	98	195	288	173	296	292	268	133
	A.V.Shunts	31	74	132	148	159	121	156	75
	Catheterization	5	16	21	68	54	52	524	253
	Venous Hemofiltration	-	-	2	18	28	28	3	2
	CAPD	-	-	-	-	3	6	5	
Cardiology	Electrocardiography	3139	3585	6365	3188	9258	11882	11838	2991
	Treadmill Test	464	713	993	1245	1252	1233	982	488
	Holter	368	358	468	581	332	198	271	131
	Echocardiography	1519	2553	3134	3726	4861	5586	4227	2132
	Catherization	178	333	539	648	636	841	1838	612
	Angiography	138	316	478	568	589	47	398	514
	Coronary Angiography	--	--	16	37	38	26	169	232
	Electrophysiological studie	1	--	13	26	26	185	165	13
	Mitral Valve balloon dilatation	--	--	--	42	88	15	15	126
Cardiovascular and Thoracic Surgery	Open Heart Surgery	63	165	214	268	388	593	333	75
	Close heart Surgery	65	198	238	283	137	251	159	118
GASTROENTEROLOGY (MED)	(A) DIAGNOSTIC								
	1. UGI Endoscopy (Diagnostic & Therapeutic)	1156	1374	1824	1695	1625	1568	1618	828
	2. Sigmoidoscopy	468	782	1817	659	732	1128	991	468
	3. Colonoscopy	115	123	136	174	199	164	127	164
	4. Abdominal ultrasound	328	388	123	71	117	17	33	16
	5. Endoscopic biopsies	324	553	748	1183	951	787	819	529

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	(B) SPECIAL								
	1. Endoscopic ultrasound	32	57	9	189	58	26	4	2
	2. Esophageal manometry	3	23	11	63	189	47	60	23
	3. 24 hour PH manometry	4	53	45	42	57	17	12	14
	2.1.4 special treatment modalities								
	(C) Therapeutic								
	1. Endoscopic sclerotherap.	455	699	862	953	1041	1191	1312	296
	2. Endoscopic polypectomy		5	15	42	9	15	19	17
	3. Piles banding		5	30	53	142	268	328	116
	4. Piles inj.		1	18			37	29	6
	5. Endoscopic papillotomy								67
	6. Endoscopic Nasobiliary d.								1
Gastroenterology (Surg)	Operations	278	422	545	623	632	717	677	358
Endocrinology (Med)	Investigations	6168	8035	8432	8531	11085	10394	13567	7980
Endocrinology (Surg)	Operations	38	158	221	239	194	156	296	112
Medical Genetics	Immuno-genetic Tests	199	298	325	451	685	1331	795	225
	Bio-chemical tests	-	-	2458	2429	2449	2448	4382	5343
	Cyto-genetic study	184	144	162	284	334	331	373	183
	Out patient	289	318	364	335	381	1734	581	129
	In patient	-	-	-	288	637	776	876	279
Immunology (A)	Autoantibodies								
	Rheumatoid factor	621	776	884	951	1189	988	1869	588
	Antinuclear antibody (ANA)	644	763	1213	1285	1557	1347	1684	433
	Anti-ds DNA	-	-	39	286	486	429	455	266
	Antineutrophilic cytoplasmic ab (ANCA)	-	-	17	52	188	72	167	182
	Anticardiolipin ab.	-	-	13	61	277	159	236	188
	Anti mitochondrial ab	-	-	-	6	54	41	77	35
	Anti Sn ab.	-	-	-	9	37	38	89	31
	Anti-platelet ab	-	-	-	-	15	13	15	5
	Anti parietal cell ab	-	-	-	-	-	-	37	2
(B)	Electrophoresis serum	71	128	158	168	171	83	366	122
	Urine/RJP	48/22	69/1	53	66	52	15		
(C)	Serum protein quantitin								
	IgG	286	471	245	166	238	178	572	186
	IgA	191	397	232	228	388	185	582	178
	IgM	192	483	225	157	289	162	512	187
	C3	382	578	681	638	917	883	1751	576
	C4	92	267	158	125	341	251	714	294
	Haptoglobin	-	134	-	3	-	13	27	3
	Tranferin	2	148	-	-	-	-	-	1
(D)	C Reactive protein	657	891	928	948	1428	1897	2861	628
(E)	Mantoux	77	159	227	292	312	154	177	22
(F)	Cryoglobulins	8	28	19	23	23	7	26	9
(G)	HBsAg	4473	7576	1814	18355	13469	12174	22342	4318
(H)	Immuno Phenotyping								4
Microbiology	Investigations								
	Bacteriology	18381	16873	19125	29932	34495	33549	38155	23681
	Mycobacteriology							2196	1298

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	Serology	421	552	931	1166	1576	2834	3187	1138	
	Mycology	63	128	169	288	387	734	782	472	
	Hosp. Surveillance	75	172	150	491	648	339	488	188	
	Virology					85	553	422	127	
	Parasitology	1020	1114	1136	1342	1513	979	1326	753	
	Investigation of outbreak					584	2258	117	5	
Nuclear Medicine	Nervous system	2	11	15	25	44	182	71	5	
	Endocrine system	15	223	318	447	482	536	452	197	
	Cardio vascular and pulmonary system	29	186	61	113	122	267	253	163	
	Gastro Intestinal	14	247	291	485	417	588	484	256	
	Musculo skeletal	316	388	486	455	659	691	617	352	
	Genito Urinary System	183	1218	2182	2885	2216	2379	2843	926	
	Radionuclide therapy with followup	15	78	564	342	488	685	442	267	
	In vitro diagnosis	-	2	21	19	16	31	27	8	
	Others	-	4	23	24	16	14	27	13	
	Pathology	Histopathology	1249	2363	3193	3875	3615	3983	23459	2117
Cytopathology		458	558	1463	2883	2233	2192	-	587	
Hematology and clinical pathology		12889	98983	113189	151313	177318	251519	239627	82949	
Clinical chemistry		119451	168173	276861	285584	318631	372488	288885	169554	
Radiology	Conventional X-ray	18816	15284	17868	16377	15943	9881	23887	12236	
	CT scan	2368	2851	2836	2838	2976	322	-	887	
	Urological investigation	1887	2278	1278	1123	1119	1157	992	513	
	Ultrasounds	3286	4615	5867	8898	9948	8671	8685	4125	
	Angiography	146	236	296	382	364	366	483	134	
	Myiography	211	317	324	198	118	174	81	6	
	Barium studies	717	773	768	675	785	863	966	328	
	Interventional	-	-	-	-	-	-	1256	177	
	Cholangiogram(ERCP+PTC)	278	326	389	325	311	175	281	188	
	Computer radiography	431	519	-	-	38	153	25		
	Interventional angiography	68	138	132	217	317	384	199		
	Magnetic Resonance Imaging	-	-	383	1895	1296	586	1871	748	
	Miscellaneous	158	176	153	259	395	98	37	18	
	Radiotherapy	New patients	-	-	-	-	-	737	758	332
		Followup patients	-	-	-	-	-	6992	6383	3398
Indoor patients		-	-	-	-	-	172	228	188	
Radiotherapy patients										
(a) Cobalt unit		-	-	-	-	-	373	329	238	
(b) Linac unit		-	-	-	-	-	228	235	53	
Radiation exposure on										
(a) Cobalt unit		-	-	-	-	-	22543	21851	15747	
(b) Linac unit		-	-	-	-	-	7871	12945	2551	
Simulator		-	116	336	517	829	784	889	425	
Cast		-	-	-	-	-	163	161	118	
Compensator		-	-	-	-	-	24	35	46	
Bclus		-	-	-	-	-	56	34	15	
Shields		-	-	-	-	-	57	23	5	
Treatment planning		-	-	-	-	-	316	281	141	
Brachytherapy		-	-	36	149	258	-	-	4	
(a) Intracavitary		-	-	-	-	-	162	181	14	
(b) Intraluminal		-	-	-	-	-	58	45	1	
(c) Others	-	-	-	-	-	18	-	2		
Chemotherapy	-	48	885	1378	2133	2166	1945	1856		

Handwritten signatures and initials:
 [Signature] N.K. S.S.D.

The status of total activated beds are as follows:

<u>Speciality</u>	<u>Nos.</u>
Endocrinology (Medical & Surgical)	60
MICU/Cardiology	52
Cardiovascular Surgery	30
Nephrology	60
Urology	60
Gastroenterology	60
Surgical Gastroenterology	30
Neurology	60
Neurosurgery	30
Medical Genetics and Clinical Immunology	30
SICU + Post operative + barrier nursing	32
Dialysis	18
General Hospital	30
Emergency services	10
Nuclear Medicine	02

TOTAL =

564

JA *MK* *CSA*

IV. 8. Staff Position

THE DETAILS STATUS QUO IN SGPGI, LUCKNOW (INDIA)
FOR THE YEAR 1991, 1992, 1993, 1994, 1995, 1996 & 1997

STATUS OF STAFF IN SGPGI	1991		1992		1993		1994		1995		1996		1997	
	SANCT- IONED	IN PO- SITION												
(A) MEDICAL STAFF														
(A-1) General Doctors														
Physician	01	01	01	01	01	01	01	01	01	01	01	01	01	01
Surgeon	01	01	01	01	01	01	01	01	01	01	01	01	01	01
Gynaecologist	01	01	01	01	02	02	02	02	02	02	02	02	02	02
Paediatrician	01	01	01	01	01	01	01	01	01	01	01	01	01	01
Anaesthetist	01	01	01	01	01	01	01	01	01	01	01	01	01	01
(A-2) Teaching Staff (Faculty)	188	90	188	91	188	98	188	98	188	98	188	97		
(A-3) Residents	100	90	180	114	197	147	197	147	324	149	236	163	273	148
(A-4) Ph.D. Students	-	-	-	18	-	-	-	-	-	-	93	08	93	13
(A-5) Research Officer & Pool Officer	01	01	01	01	17	17	17	17	15	15	01	01		
(B) NURSING STAFF														
(B-1) Sister Incharge	-	-	22	14	37	14	37	14	60	14	77	13		
(B-2) Staff Nurse	450	208	450	261	450	300	450	321	522	345	536	415		
(B-3) Ward Master	-	-	-	-	15	13	37	14	37	14	25	14		
(C) PARA MEDICAL STAFF														
(C-1) Medical Laboratory Technicians & Radiological Technicians	233	151	233	158	233	158	233	170	233	170	194	148		
(C-2) Pharmacist	09	02	09	02	09	02	09	02	09	02	09	02		
(C-3) Lab. Attendants	310	205	64	54	64	54	64	54	64	51	64	53		
(C-4) Patient Helpers	-	-	103	147	103	147	103	153	157	151	153	147		
(D) ADMINISTRATIVE STAFF														
(D-1) Administrative Officer (Joint Director (Adm.)/Sr. Adm. Officer/Sr. Per. Officer/Store Purchase Officer/Adm. Officer/Accounts Officer etc.)	13	09	13	08	13	08	13	08	13	08	13	08		
(D-2) Office Staff (OS/UDA/LDA/Typist/Record Keeper)	139	43	139	90	139	91	149	95	156	94	156	94		94
(D-3) Stenographers	40	24	40	24	40	24	40	23	40	24	40	24		
(E) OTHERS														
(E-1) Drivers	31	23	31	25	34	25	38	25	38	25	38	26		
(E-2) Gardeners/Vatika Rakshak	24	21	24	21	24	21	24	21	24	21	24	22		
(E-3) Chief Cook/Cook	12	-	12	03	12	02	12	03	12	03	12	03		
(E-4) Cook Helper/Server/Bearer Masalchi	12	-	22	07	22	07	22	17	22	17	22	17		
(E-5) Medical Social Worker	11	11	11	11	11	11	11	11	11	11	11	11		
(E-6) Others (Staff with different designation including attendant/peon etc.)	614	263	614	296	614	351	614	351	614	351	677	362		

N.B.

1. A number of senior positions have remained unfilled because of lack of decision on promotion policy. Now it has been decided on January 3rd, 1997 which shall speed up the process of recruitment.
2. Several technical positions have remained unfilled due to reservation policy as appropriately qualified professionals were not available in the reservation category.

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IV. 9. Summary of Income & Expenditure :

Summary of Income & Expenditure from 1995-96

The State Govt. provides funds under two heads:-

1. Non Plan

The Non-Plan budget of the Institute, mainly relates to recurring expenditure such as salaries and establishment charges of the staff, maintenance and functioning of Hospital Services, Academic Activities, Research work and employees welfare etc.

2. Plan

Plan budget of the Institute, mainly relates to developmental activities i.e. construction of Building, Purchase of medical equipments and other capital items.

<u>Head</u>	1995-96	(Rs. in lacs) 1996-97 Upto Jan, 97
-------------	---------	--

A Non Plan

Income

1. Grant-in-aid	1500.00	1325.00
2. SGPGI own sources	501.17	580.00
	<u>2001.17</u>	<u>1905.00</u>

Expenditure

1. Pay & Allowances	875.64	912.74
2. Water & Electricity ch.	258.49	199.30
3. Security Expenses	26.74	23.24
4. Sanitation Expenses	47.05	55.18
5. Maintenance	99.01	122.00
6. Academic Programmes	132.93	126.16
7. Research Activity	13.07	6.17
8. Hospital Services	473.03	476.06
9. Employees Welfare	64.07	45.87
10. Payment of Interest to H.D.F.C.	55.34	37.19
11. Other expenditure	167.40	131.52
Uniform, Travelling, Postage	-----	-----
Stationery, Advt., Telephone	2212.77	2135.43
Telex, P.O.L., Audit Fees, Misc.	-----	-----

SK NK SPT

B Plan

Income

1.	Grant-in-aid	800.00	1500.00
2.	Recd. from Lottery Fund	-	125.00
		-----	-----
		800.00	1625.00

Expenditure

1.	Building Construction	443.66	500.79
2.	Purchase of Med. equipt.	271.06	203.06
3.	Other Capital Items	132.11	153.34
		-----	-----
		846.83	857.19
		-----	-----

John M.K.

Sgt

V. THE RESULTS OF THE PROJECT

1. Transfer of latest technology

All the advanced medical technology of the Superspecialities that had been agreed upon in the Record of Discussion signed on June 1995 has been introduced by the Japanese Experts to their Indian counterparts with the overall outcome of the satisfactory result. According to the order of the description of the "Record of Discussions", the objectives of the project are evaluated as follows:

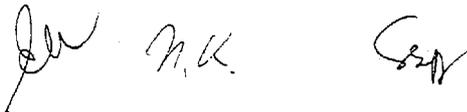
(i) **Virology :**

During the extension period four short term experts were dispatched and one expert will be dispatched shortly. In addition, one counterpart trainee visited Japan. Technology pertaining to isolation and identification for laboratory diagnosis of enteroviruses and cytomegaloviruses has been satisfactorily transferred to the Indian counterparts. Basic techniques for molecular epidemiological studies of HIV have been transferred, but molecular genetic studies of HIV need to be developed further.

(ii) **Neurosurgery :**

Two short term experts were dispatched. Improvement of microsurgical techniques in the treatment of large cranial aneurysms, intracranial arteriovenous malformations and other neurosurgical techniques of advanced grades have reached to a satisfactory level.

The department established a solid reputation as a center of neurosurgery not only in U.P. but in eastern part of India. More than thousand of neurosurgical operations including intracranial microsurgery were performed in these two years.



(iii) Endocrinology :

Three short term experts were dispatched and four will be dispatched to participate in Indo-Japanese Workshop on Thyroid Cancer, which will be organised by JICA Project during 22nd and 24 May, 1997. In addition, one counterpart trainee visited Japan.

Active and intimate cooperation between Japanese experts and counterparts has resulted in the field work for endemic goiter due to iodine deficiency with satisfactory results.

The study of the relationship between iodine deficiency and breast fibroadenosis has not been undertaken but will be started in the fiscal year of 1997-98.

Setting up of endocrine surgery research laboratory for molecular and morphological studies has been completed. During this period only basic technology has been satisfactorily transferred.

(iv) Diagnostic Radiology :

Two short term experts were dispatched. Technology for production of metallic stent and its clinical application as well as ultra-super selective catheterization was transferred to the counterparts satisfactorily. Techniques for transjugular intrahepatic portosystemic shunt for portal hypertension was also successfully demonstrated by the Japanese experts.

The clinical application of these advanced techniques depends largely upon the function of the sophisticated radiological equipment provided by grant-in-aid, most of which becomes old and requires adequate maintenance and repair besides replacement.

(v) **Medical Information Technology (Transfer of concept only) :**

A Japanese expert is supposed to visit SGPGI during March this year for transfer of concept on the hospital information system in SGPGI. Internet facility has recently been provided for some departments including Biostatistics. Through internet, consultation on the hospital information system will be continued between the counterparts.

(vi) **Vascular Microsurgery :**

An Operation Microscope has been provided by JICA and a centralized experimental laboratory facility for teaching vascular microsurgery has been set up by SGPGI. One short term expert on Vascular Microsurgery is supposed to visit SGPGI during March 12-30. The results of technology transfer for Vascular Microsurgery will be evaluated later.

(vii) **Bio-medical Engineering :**

An Assistant Engineer and a Junior Engineer visited Japan as counterpart trainee each for 6 months. A technician received training under Tripartite Arrangement in the field of Repair & Maintenance of Medical Equipment at the Division of Biomedical Engineering Services in Sri Lanka. Another Junior Engineer has been nominated as a counterpart trainee for the fiscal year of 1997-98. Mr. S. Shimizu, Long term Jica expert in Bio-medical Engineering, has published a booklet titled "Guidlines for Maintenance & Safety Control of Bio-medical Equipments" which is especially prepared according to the working system of the Biomedical Engineering at SGPGI.

All these activities of the project have improved the skills of personnels of Biomedical Engineering Department. They are capable of repair, inspection, and maintenance of medical equipment within the defined scope of functioning of the Biomedical Engineering at this Institute.

for N.K. *SN*

2. Academic activity :

Publication of original papers remarkably increased in number during the years of 1995 and 1996, without parallel increase in the number of faculty member of about one hundred. The ratio of the publication of original paper to each faculty member goes to approx. 0.8 in 1994 , 1.1 in 1995 and approx. 1.6 in 1996. About two thirds of the original papers were published in the international journals, and one third in the national journals.

3. Utilization of the Equipment :

Almost all the Vascular Surgery instruments, an operation microscope and others which arrived in October, 1995 are used effectively. At the beginning of the extension period of this project about eighty percent of medical equipment provided in 1986-87 by grant-in-aid was effectively utilized and about twenty percent required repair. Thereafter the number of the equipment requiring repair increased because of approaching to the limit of usage life span. The Institute has heavily invested in Annual Maintenance Contracts of most major equipments, and a large number of spare parts were procured by the Institute for the maintenance of the equipment. Some spare parts worth 34 million Yen for existing equipment will arrive by the end of this extension period. The Institute has initiated the replacement programme for the aging equipment.

4. Overall appraisal of the Project :

The Heads of the Departments concerned to the extended project are satisfied with the result of Technical Cooperation and the counterpart training in Japan.

The visiting JICA Team is satisfied with the overall outcome of the Japanese Technical Cooperation Programme.

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VI. RECOMMENDATIONS

The participants of the Joint Evaluation meeting agreed that the Project had steadily made contributions relevant to the promotion of academic & research activities of SGPGI as tertiary medical center and as a post-graduate institute of medical sciences. For further development of activities of the SGPGI the following points are to be considered.

(1) In accordance with the result of the Project (as mentioned in the Contents No. V) the following specialities require follow up of cooperation activity to promote appropriate transfer of technology.

(a) **Biomedical Engineering :**

Under the Grant-in-Aid and the technical cooperation a large number of expensive , sophisticated equipments such as Computed Radiographic System, Ultrasound Scanner, Biplane Abdominal Angiographic Apparatus with DSA and Whole Body CT Scanner was introduced to the Institute, but it is not within the scope of the functioning of Biomedical Engineering of the Institute to maintain them. Therefore, the Institute would require support to repair, maintain and manage the sophisticated equipment even after the closing of the Extended Technical Cooperation.

(b) **Research Activities :**

(i) **Microbiology (Virology)**

Improvement of laboratory diagnosis and molecular epidemiological studies of viral diseases in India.

(ii) **Endocrine Surgery**

Establishment of an endocrine surgical laboratory for molecular and morphological studies.

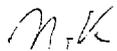
llh M.K. S.S.

(2) The SGPGI has been contributing to the improvement of the national health standard and to the promotion of the people's welfare in the Republic of India through development of health-related manpower.

At present, it covers, however, limited areas of the specialities of medical care, Neurology and Neurosurgery, Cardiology and Cardiovascular and Thoracic Surgery, Medical and Surgical Gastroenterology, Urology and Nephrology, Medical Genetics and Clinical Immunology and other specialities providing investigative services such as Microbiology, Nuclear Medicine, Pathology and Radiology as well as those providing necessary therapeutic support; Anesthesiology, Radiotherapy and Transfusion Medicine.

To create a center of excellence of medical sciences, it is extremely important to accomplish the original plan of SGPGI which includes establishment of other superspecialities of medical care. The infrastructure for research would also need to be strengthened for effective research. As a result of the 7 year technical cooperation including the first 5 years, SGPGI came to enjoy the full confidence of the nation and has made many contributions to medical care in India.

In addition, the friendly relation between India & Japan has been firmly established through the exchange of staff and cooperative work. It is expected that the friendly relations which were fostered in the past years would continue between both countries.



(単位 : 千ルピー)

	1990-1991	1991-1992	1992-1993	1993-1994	1994-1995	1995-1996	1996- 1997 (ESTIMATE)	1996-JAN. '97 (ACTUAL)
収入合計	200,321	206,229	268,434	284,451	361,836	280,117	535,548	353,000
支出合計	266,565	212,100	232,581	219,272	263,963	305,960	523,048	299,262
A. Non Plan								
(1) 収 入	<u>80,321</u>	<u>103,729</u>	<u>148,434</u>	<u>164,451</u>	<u>241,836</u>	<u>200,117</u>	<u>323,048</u>	<u>190,500</u>
1) 州政府助成金	60,000	84,000	110,000	120,000	200,000	150,000	251,093	132,500
2) S G P G I 病院他収入	20,321	19,729	38,434	44,451	41,836	50,117	71,955	58,000
(2) 支 出	<u>81,215</u>	<u>109,484</u>	<u>149,876</u>	<u>164,099</u>	<u>204,622</u>	<u>221,277</u>	<u>323,048</u>	<u>213,543</u>
1) 人件費	6,706	11,872	12,439	16,895	18,809	87,564	129,149	91,274
2) 電気・水道料金	9,649	12,013	17,994	20,100	23,868	25,849	27,000	19,930
3) 警備・衛生費	8,997	13,113	21,343	16,578	20,893	7,379	9,700	7,842
4) 機材保守費 ('94 まで医療機器のみ)	1,811	2,380	5,196	3,423	14,762	* 9,901	* 21,300	* 12,200
5) 教育関連費	13,480	14,936	19,408	23,348	22,687	13,293	17,455	12,616
6) 研究関連費	2,581	1,550	2,121	1,685	1,506	1,307	2,000	617
7) 病院サービス関連費 ('95より医療機器 保守を含)	16,639	18,969	29,188	37,616	43,054	★ 47,303	☆ 83,150	47,606
8) 福利厚生費	1,440	1,755	3,269	2,741	4,421	6,407	6,750	4,587
9) 支払利息	6,186	6,416	6,307	6,072	5,820	5,534	4,500	3,719
10) その他	13,726	26,480	32,611	35,641	48,802	16,740	22,004	13,152
(注 : * 土木・電気工事機材、 ★ AMC 9,300 含 ☆ AMC 12,000 ・ スペア-γ 12,550 含)								
B. Plan								
(1) 収 入	<u>120,000</u>	<u>102,500</u>	<u>120,000</u>	<u>120,000</u>	<u>120,000</u>	<u>800,000</u>	<u>212,500</u>	<u>162,500</u>
1) 州政府補助金	120,000	102,500	120,000	120,000	120,000	800,000	200,000	150,000
2) その他	0	0	0	0	0	0	12,500	12,500
(2) 支 出	<u>185,350</u>	<u>102,616</u>	<u>82,705</u>	<u>55,174</u>	<u>59,341</u>	<u>84,683</u>	<u>200,000</u>	<u>85,719</u>
1) 建設費	95,734	54,913	63,684	29,169	16,279	44,366	110,000	50,079
2) 医療機器購入費	79,091	38,300	10,893	19,941	16,127	27,106	60,000	20,306
3) その他	10,525	9,403	8,128	6,064	26,935	13,211	30,000	15,334

STATUS OF PHASE-I

1. Functioning of the Institute & Main Hospital:

- (a) All the proposed 20 departments are functioning, providing patient care, teaching & training and research as envisaged in the original plan.
- (b) Activation of Bone Marrow Transplant Ward, 4 additional Operation Theatres is in progress.
- (c) Medical Council of India's recognition of degrees has been obtained except in new disciplines which are being pursued with the MCI (Clinical Immunology, Medical Genetics and Transfusion Medicine).

2. Equipment:

All the equipments received under the Japanese grant-in-aid are installed and functioning. In addition to this the Institute has also procured equipments of about Rs. 60.00 Crores which are also functioning. Now the Institute has started replacement of equipments which have outlived their utility in phased manner.

3. Buildings :

- (a) All essential buildings of the 600 bedded Hospital are complete.
- (b) Construction of 10 projects, allied to the above areas, is in progress: Auditorium, OPD Vishramalaya, PG Hostel, Nurses Hostel, Type-II Residences for Nurses, Sports Complex, Additional Airconditioning, Stage-II Service Block.
- (c) Construction of Library, Nursing College, Mortuary, Animal House and Biomedical Workshop is going to be taken up in the next financial year.

BRIEF REVIEW FOR JICA VISIT MARCH 1997 DEPARTMENT OF RADIOLOGY

The department of Radiology has been functioning since January 1988. It is equipped with all the latest modern imaging facilities such as Magnetic Resonance Imaging, Whole Body Computed Tomography, Computerised Radiography, Digital Subtraction Angiography, Remote control Gastrointestinal X-Ray Machine, Ultrasonography, Urography with Tomographic facility, Myelography, conventional and mobile X-Ray Units. A Spiral CT unit is in the process of being installed very soon.

The department provides the entire spectrum of radiological services which include conventional and modern imaging and interventional facilities under one roof. In addition to the patient workup, the department also has teaching (MD, PhD) and training programmes for the radiologists from various part of the state. In the research area, the department has concentrated upon Magnetic Resonance Spectroscopy and development of indigenous materials for Interventional procedures (coils and metallic stents). In the field of MR Spectroscopy the work has been carried out mainly in various brain lesions and we have the first publication in the world on tuberculosis. The development of indigenous stent has helped in diseases involving hepatobiliary system, esophagus and urethra. The coil has helped in this institute being the first in the country to occlude cases with patent ductus arteriosus.

There have been some negative factors as well which have probably not allowed us to use the full advantages of the facilities. Some of the machines have been repeatedly out of order and in spite of best of Institute's efforts and JICA's support the problems could not be solved. Such machines include DSA (DAR200) and Computed Radiography Unit. It seems that the service engineers of the agents of these companies were either not trained well or there was a lack of backup support from the parent companies.

POSSIBLE AREAS OF COLLABORATION

Two of our faculty members have been trained in Japan and they have utilised this training for the development of hepatobiliary intervention. Collaboration in this area would help us even more.

Some of the other areas could be

MR Spectroscopy

Neurointervention Radiology

DEPARTMENT OF RADIOLOGY

PUBLICATIONS:

ORIGINAL ARTICLES

1. Oral cholecystography: comparison of conventional screening with photostimuable imaging plate radiographs. Srivastava DN, Kulshrestha A, Gujral RB, Phadke RV. Gastrointestinal Radiology 1991;16:49-52.
2. Diagnostic Imaging in spinal dysraphism: Phadke RV, Roy S, Mittal P, Jain VK, Gujral RB. Neurology India 1991;39:133-139.
3. Association of vitamin D deficiency with endemic fluorosis in India. Misra UK, Gujral RB, Sharma VP, Bhargava SK. Fluoride 1992;25(2): 65-69.
4. MR voiding cystourethrogram in normal adult males. Gupta RK, Kapoor R, Poptani H, Rastogi H, Gujral RB. Mag. Reson Imaging 1992;10:881-885.
5. US guided biopsy of destructive cervical spinal lesions. Gupta RK, Gupta S, Tandon P, Chhabra DK. J Clin Ultrasound 1993;21:194-197.
6. Extra-anatomic stenting of the biliary system. Baijal SS, Roy S, Choudhary G. Ind J Gastroenterol 1993;12: 58-59.
7. Radiological spectrum of endemic fluorosis. Mittal A, Trivedi N, Gupta S, Kumar S, Gupta RK. Skeletal Radiology 1993;22:257-261.
8. Sonourethrography in the evaluation of anterior urethral stricture in 30 patients: its correlation with radiographic urethrerography. Gupta S, Tiwari A, Mazumdar B, Gupta RK, Kumar A, Gujral RB. J Clin Ultrasound 1993;21:231-239.
9. Intracranial tuberculomas: MRI signal intensity correlation with histopathology and localised proton spectroscopy. Gupta RK, Pandey R, Khan EM, Mittal P, Gujral RB, Chhabra DK. Mag Resonance Imaging 1993;11:443-449.
10. Problems with the "dural tail" sign. Gupta S, Gupta RK, Banerjee D, Gujral RB. Neuroradiology 1993;35(7):541-542.
11. MR imaging and localised invivo proton spectroscopy in patients with fulminant hepatic failure. Gupta RK, Saraswat VA, Poptani H, Dhiman RK, Kohli A, Gujral RB, Naik SR. Am. J. Gastroenterol 1993;88: 670- 674.
12. Signal intensity patterns in intraspinal dermoids and epidermoids on MR imaging. Gupta S, Gupta RK, Gujral RB, Mittal P, Kuriyal M, Krishnani N. Clin Radiol 1993; 48:405-413.
13. Tuberculous Radiculomyelitis (arachnoiditis): Myelographic (and CT myelographic) appearances. Phadke RV, Kohli A, Jain VK, Gupta RK, Kumar S, Gujral RB. Australasian Radiology 1994;38:10-16.
14. Hybrid Gianturco expandable stent. Roy S, Baijal SS, Phadke RV, Kumar S. AJR 1994;162:449-450.
15. Brittleness of gallstones to lithotripsy: effect of physicochemical and ultrastructural characteristics. Choudhary G, Agrawal DK, Phadke RV, Ramesh V, Hauser W, Kumar J, Negi TS, Kulshrestha A. European Journal of Clinical Investigation 1994;24:22-27.

16. Muscular sufficiency, serum protein, enzyme and bioenergetic studie (31 phosphorus magnetic resonance spectroscopy) in chronic malnutrition. Gupta RK, Mittal R, Agerwal DK, Agarwal KN. Acta Paediatrica 1994;83:327-331.
17. Pontine and Extrapontine myelinolysis presenting with acute parkinsonism during recovery. Pradhan S, Singh MN, Mathur VN, Phadke RV. Neurology India 1994;42: 163-167.
18. Handigodu disease: a radiological study. A new variety of spondylo epi(meta)physeal dysplasia of the autosomal type. Agarwal SS, Phadke RV, Phadke S, Das SK, Singh GK, Sharma JP, Teotia SPS, Saxena BN. Skeletal Radiology 1994;23:611-619.
19. MR imaging of intra spinal tuberculosis. Gupta RK, Gupta S, Kumar S, Kohli A, Misra UK, Gujral RB. Neuroradiology 1994;36:39-43.
20. Role of MRI and MRA in tuberculous meningitis. Gupta RK, Gupta S, Singh D, Kohli A, Sharma B, Gujral RB. Neuroradiology 1994;36:87-92.
21. Geographic variations in structure and composition of gall stones and their correlation with brittleness. Choudhari G, Agarwal DK, Phadke RV, Ramesh V, Hanser W, Kulsrestha AK, Negi TS. Journal of Gastroenterology and Hepatology 1994;9:452-456.
22. A study of radiological and neurophysiological changes in Japanese encephalitis. Misra UK, Kalita J, Kumar S, Mathur A. J Neurol Neurosurg Psychiat 1994;57: 1484-1487.
23. Percutaneous closure of patent ductus arteriosus with coil. Srivastava S, Radhakrishnan S, Kapoor A, Kumar S. Indian Heart Journal 1994;46: 349-350.
24. Ultrasound guided detection and cytology of orbital masses. Baijal SS, Sharma K, Agarwal P, Phadke RV, Gujral RB. Ann Ophthal 1995;27:36-39.
25. Treatment of recurrent posterior urethral strictures with expandable metallic stents. Gujral R, Roy S, Baijal SS, Phadke RV, Ahlawat R, Eddu SS, Rastogi H. J Vasc Intervent Radiol 1995;6:427-433.
26. Cystic intracranial mass lesions: possible role of in vivo spectroscopy in its differential diagnosis. Poptani H, Gupta RK, Jain VK, Roy R, Pandey R, Gujral RB. Mag Reson Imaging 1995;13:1019-1029.
27. The magnetic resonance renogram in renal transplant evaluation using dynamic contrast enhanced MR imaging. Sharma RK, Gupta RK, Poptani H, Pandey CM, Gujral RB, Bhandari M. Transplantation 1995;59:1405-1409.
28. Percutaneous catheter drainage of amoebic liver abscesses with and without intrahepatic biliary communication: a comparative study. Agarwal DK, Baijal SS, Roy S, Mittal BR, Gupta R, Choudhari G. Eur J Radiol 1995;20:61-64.
29. Brain metabolite changes on in vivo proton MR spectroscopy in children with congenital hypothyroidism. Gupta RK, Bhatia V, Poptani H, Gujral RB. J Paediatr 1995;126:389-394.
30. In vivo localised proton magnetic resonance spectroscopy of intracranial tuberculomas. Gupta RK, Poptani H, Kohli A, Chhabra DK, Sharma B, Gujral RB. Ind J Med Res 1995;101:19-24.
31. Complex ruptured amoebic liver abscess: the role of percutaneous catheter drainage. Baijal SS, Agarwal D, Roy S, Choudhari G. Eur J

Radiol 1995;20:65-67.

32. Characterization of intracranial mass lesions with in vivo proton MR spectroscopy. Poptani H, Gupta RK, Roy R, Pandey R, Jain VK, Chhabra DK. Am J Neuroradiol 1995;16:1593-1603.

33. Idiopathic Duro-optic Calcification - A new entity? Phadke RV, Agarwal P, Sharma K, Chauhan SSP. Clin Radiol 1996; 51: 359-361.

34. Problems in distinguishing spinal tuberculosis from neoplasia on MRI. Gupta RK, Agarwal P, Rastogi H, Kumar S, Phadke RV, Krishnani N. Neuroradiology 1996; 38:97-104.

35. Finger printing of mycobacterium tuberculosis in patients with intracranial tuberculomas using in vivo, ex vivo and in vitro MR spectroscopy. Gupta RK, Roy R, Dev R, Hussain M, Poptani H, Pandey R, Kishore J, Bhaduri AP. Magn Reson Med 1996;36:829-833.

36. Arterial complications of pancreatitis and their radiological management. Sawlani V, Phadke RV, Baijal SS, Kumar S, Roy S, Gupta P, Gujral RB. Australasian Radiology 1996;40:381-386.

37. Giant cell tumour of sphenoid - diverse presentation: Report of two cases. Behari S, Banerji D, Phadke RV, Acharya R, Shukla S, Gupta RK, Jain VK. Neurol Res 1996; 18: 462-466.

38. Compressive myelopathy in patients with flourosis: MRI features. Gupta RK, Agarwal P, Kumar S, Surana PK, LalJH, Misra UK. Neuroradiology 1996;38:338-342.

39. Problems in differentiating spinal tuberculosis from neoplasm on magnetic resonance imaging. Gupta RK, Agarwal P, Rastogi H, Kumar S, Phadke RV, Krishnan N. Neuroradiology 1996;38:97-104.

40. Malignant hypertension in children in India. Kumar P, Anona P, Kher V, Rai PK, Gulati S, Baijal SS, Kumar S. Nephrol Dial Transplant 1996;11: 1261-1266.

41. Brain MRI and cognitive evoked potentials in rural chronically undernourished children. Nutrition Research 1996;11: 1147-1151.

42. Three-Dimensional time-of-flight MR angiography of the arch of Aorta and its major branches: a comparative study with contrast angiography. Kumar S, Roy S, Radhakrishnan S, Gujral R. Clinical Radiology 1996;51:18-21.

43. A clinical, MRI and neurophysiological study of acute transverse myelitis. Misra UK, Kalita J, Kumar S. J Neurol Sci. 1996;138: 150-156.

44. Takayasu's arteritis: evaluation with three-dimensional time-of-flight MR angiography. Kumar S, Radhakrishnan S, Phadke RV, Gupta RK, Gujral R. European Radiology 1997;7:44-50.

45. Traumatic carotid cavernous fistula: anatomic variation and its treatment by detachable balloons. Australasian Radiology 1997 (in press).

46. Parainfectious myelitis- three distinct clinicoimagingological patterns with prognostic implications. Pradhan S, Gupta RK, Ghosh D. Acta Neurologica Scandinavica 1997 (in press).

47. MRI demonstration of wallerian degeneration in various intracranial lesions and its clinical implications. Sawlani V, Gupta RK, Singh MK, Kohli A. J Neurol Sci. 1997 (in press).

48. MRI of Hirayama's disease. Pradhan S, Gupta RK. J Neurol Sci 199 (in press).

49. Iatrogenic renal vascular injuries and their radiological management. Phadke RV, Sawlani V, Rastogi H, Kumar S, Roy S, Bajaj SS, Ramesh Babu V, Anilwar R, Kher V, Gujral RB. Clinical Radiology 1997 (in press).

50. MRI in Japanese encephalitis. Kumar S, Misra UK, Kalita J, Sawlani V, Gupta RK, Gujral RB. Neuroradiology 1997 (in press).

BOOK CHAPTERS/ REVIEWS

1. Gujral RB. Quality assurance in CT and MRI: Radiology. In: Rehani (ed) Diagnostic Imaging, New Delhi, Jaypee Bros, 1995:216-222.

2. Gujral RB. Imaging of the urinary bladder. In: Berry M, Vashisht S, Chaudhary V (eds) Diagnostic Radiology, New Delhi, Jaypee Bros, 1995: 98-104.

3. Jenkins JR, Gupta RK, Chang KH, Carbajal. Magnetic resonance imaging of CNS tuberculosis. Radiol Clin North America 1995;33:771-786.

4. Gujral RB. Imaging pleural diseases. In: Berry M, Mukhopadhyay S, Suri S (eds) Diagnostic Radiology, New Delhi, Jaypee Bros, 1996 (in press).

CASE REPORTS

1. Choledocal cyst. Kulshrestha et al. Ind J Radiol and Imaging 1989;43(1): 81-82.

2. Tuberculous Vesico-vaginal fistula. Kulshrestha et al. Brit J Urol 1989; 62: 1615.

3. Imperforate Hymen with Haemato-colopos and Haemetometra- Clinico-ultrasonic correlation. Kulshrestha A et al. Journal of Obstetrics and Gynecology 1990; : 727-28.

4. Cranio-Cerebral Neuroblastoma. Phadke RV, Jain VK, Srivastava DN, Tandon P, Gujral RB. Indian Pediatrics 1991;28:1201-1203.

5. Sonographic Appraisal of Endobiliary Ascaris with calculi: Srivastava DN, Chakravarti AL, Saxena R, Saraswat V, Kulshrestha A, Gujral RB, Phadke RV. Am J Gastroenterol 1991;86:527-528.

6. Spinal Dysraphism in achondroplasia: Phadke RV, Phadke SR, Chakravarti AL. Pediatric Neurosurgery 1991;16:32- 34.

7. Primary pulmonary neurofibroma. Srivastava DN, Gupta RK, Ganjoo AK, Tandon P. Ind J Chest Dis Allied Sciences 1991;33:207-211.

8. Petrous Internal carotid aneurysm: Treatment with steel coil occlusion of the parent vessel: Roy S, Phadke RV, Tyagi I, Mittal P, Kohli A. Journal of Interventional Radiology 1992;7:75-78.

9. Primary intestinal lymphangiectasia. Role of CT and scintigraphy. Puri AS, Agarwal R, Gupta RK, et al. Gastrointest Radiol 1992;17:119-121.

10. CT demonstration of Complex dorsal Dysraphism. Gupta RK, Phadke RV, Srivastava DN, Jain VK, Gujral RB. Australasian Radiology 1992;36:2-3.

11. Acute Focal bacterial nephritis - Diagnosis and Management. Kulshrestha A, et al. Indian Journal of Radiology and Imaging 1992; 2(3):191-92.

12. Inadvertent Duodenal stenting: A case report: Roy S, Baijal SS, Phadke RV, Choudhari G. Australasian Radiology 1992;36:80-82.
13. Primary malignant peritoneal mesothelioma simulating pseudomyxoma peritonei. Gupta S, Gupta RK, Gujral RB, Agarwal P, Saxena R, Tandon P. Gastrointestinal Radiol 1992;17:129-131.
14. Double Traumatic carotico-cavernous fistula and its treatment by detachable balloons. Kumar S, Phadke RV, Mazumdar B, Roy S, Gujral RB. Neuroradiology 1992;34:532-533.
15. C1-C2 block Vertebra with fusion of anterior arch of atlas and the odontoid. Gupta S, Phadke RV, Jain VK. Australasian Radiology 1993;37:95-96.
16. Pancreatic adenocarcinoma presenting with ureteric metastases: a case report and review of literature. Roy S, Baijal SS. Clin Imag 1993;17:99-103.
17. Negative scan in neurocysticercosis. Sharma K, Gupta RK. Pediatric Neurosurgery (Basel) 1993;19:206-207.
18. Multiple pituitary hormone deficiency in a patient with spinocerebellar degeneration: magnetic resonance imaging and hormonal studies. Bhatia E, Shukla R, Gupta RK, Misra UK. J Endocrinol Invest 1993;16:639-642.
19. Adrenal tumour complicating untreated 21-hydroxylase deficiency in a 5 1/2 year old boy. Bhatia V, Shukla R, Misra SK, Gupta RK. AJDC 1993;147:1321-1323.
20. Unusual MRI appearances of cysticercosis within the fourth ventricle. Gupta RK, Jain VK, Kumar S, Gupta S, Haque I, Gujral RB. Neuroradiology 1993;35(6): 457-458.
21. Ultrasound guided fine needle aspiration of a nasopharyngeal mass. Gupta S, Gupta RK, Gujral RB. J Clin Ultrasound 1993;21(5):350-351.
22. Unusual enhancement on gadolinium - enhanced cerebellar lymphoma. Gupta RK, Gupta S, Mittal P, Pandey R, Kohli A, Gujral RB. Neuroradiology 1993;35(6): 454-455.
23. Percutaneous retrieval of deformed guidewire by a modified snaring technique. Roy S, Phadke RV, Kumar S, Rastogi H, Baijal SS. Cathet Cardiovasc Diagn 1993;23:332-334.
24. Carbon mono-oxide poisoning: an unusual cause of acute renal failure. Jha R, Kher V, Kale SA, Kumar S, Arora P. Renal Failure 1994;16:775-779.
25. Calcific Pancreatitis-induced gastroduodenal artery pseudoaneurysm: non-surgical management. Agarwal P, Phadke RV, Baijal SS, Yachha SK, Sharma BC, Poddar U. Pediatric Radiology 1994;24: 539-540.
26. Kluver Bucy Syndrome: Sequelae of tuberculous meningitis. Misra UK, Phadke RV, Khanna V, Seth PK. Neurology India 1994;42:29-31.
27. Interventional radiology in the management of superior thyroid artery injury which presents as a diagnostic dilemma. Sharma AK, Agarwal P, Roy S, Gambhir S, Mishra SK, Phadke RV. Australasian Radiology 1994; 38: 70-71.
28. MRI of the empty sella. Agarwal P, Gupta RK, Gujral RB. The International Medical Image Registry 1995;2: 105-106.
29. Acute bilateral ophthalmoplegia secondary to prostatic carcinoma. Demonstration on magnetic resonance imaging. J Neuro-ophthalmol 1995;15: 45-47.

30. Aneurysmal form of aortoarteritis with aberrant right subclavian artery: diagnosis by magnetic resonance angiography. Kumar S, Gupta S, Gujral RB. *Minerva Cardioangiologica* 1995; 45: 375-378.
31. In vivo proton MR spectroscopy (MRS) in a case of intracranial hydatid cyst. Kohli A, Gupta RK, Poptani H, Roy R. *Neurology* 1995;45:562-564.
32. Unusual MR features in a case of completely thrombosed giant aneurysm of the posterior cerebral artery. Rastogi H, Gupta RK, Jain VK, Pandey R, Gujral R. *J Magnetic Resonance Imaging* 1995;4:472-480.
33. Amaurosis Fugax and Orbital arterio-venous malformation. Kaur A, Kohli A, Phadke RV, Jain VK, Chhabra DK. *Neurology India* 1996;44: 121-123.
34. MRI features of an epidural spinal haemangioma: case report. Gupta S, Kumar S, Banerji D, Pandey R, Gujral R. *Australasian Radiology* 1996; 40: 343-344.
35. MRI in band heterotopia. Rastogi H, Kumar S, Phadke RV. *Neurology India* 1996;44:162-163.
36. Spinal segmental maldevelopment with a dermal sinus. Rastogi H, Behari S, Phadke RV, Gupta RK, Kumar S, Mittal P. *Neuroradiology* 1996; 38: 658-660.
37. Vertebral haemangioma with compressive myelopathy: role of preoperative embolization. Behari S, Phadke RV, Kumar D, Gupta A, Banerji D, Mittal P, Jain VK. *Ind J Surg* 1996;Nov-Dec:329-332.
38. Intramedullary spinal cord metastasis from choroidal melanoma—a case report and review of literature. Gupta N, Dutta NR, Agarwal P, Gupta RK. *Radiography* 1996;2:157-160.
39. MR of multiple intraspinal abscesses associated with congenital dermal sinus. Dev R, Hussain M, Gupta A, Gupta RK. *AJNR* 1997 (in press).
40. MR angiography of cervical aortic arch: a case report. Kumar S, Bajaj R, Gujral RB. *Clinical Radiology* 1997 (in press).

Department of
ENDOCRINE SURGERY,
SGPGIMS, LUCKNOW



Report Submitted to
J.I.C.A.
PROJECT EVALUATION TEAM

March, 1997.

DEPARTMENT OF
ENDOCRINE SURGERY
(Established in September, 1989.)

Faculty:

SK Mishra

Additional Professor

AK Verma

Assistant Professor

Departmental Activities

Teaching & Training:

Regular teaching programme is held for service senior residents at par with other departments having MCh courses. This includes seminar, journal club, lecture, group discussion, teaching ward round and morbidity/mortality meeting. Inter-departmental teaching programmes are held with the Departments of Medical Endocrinology, Radiology, Pathology, Radiotherapy, Nuclear Medicine and Anaesthesiology. Post Doctoral Certificate Course (*PDCC*) has been started since January 1997. The residents are given independent charge of the out patient and in patients for evaluation and management of endocrine surgical disorders and trained in operative technique in a graded manner under the supervision of the consultant.

Regular classes of the nursing staff of the inpatients and the operation theater are conducted to highlight the special nursing care required in the pre-, intra- and post- operative period.

Clinical Services:

Out Patient Services:

The department runs three outpatient clinics every week including, a **breast clinic**, providing services for screening, evaluation and management of whole spectrum of benign and malignant breast diseases and a **diabetic clinic** providing health education for diabetic foot care and management of diabetic foot lesions in collaboration with diabetic clinic run by medical endocrinology department.

Indoor Services:

Total strength of beds: thirty.

One independent theater running three days a week.

Research :

Various research projects have been completed or are in various stages of completion. These include:

1. Correlation of thyroid hormone Levels and Intraoperative hemodynamic changes in toxic goiter patients.
2. Functional and morphological recovery of suppressed thyroid lobe following excision of autonomously functioning thyroid nodule.
3. Influence of thyroid surgery in parathyroid function and in-situ parathyroid preservation.
4. Influence of thyroidectomy on Graves' ophthalmopathy.

Areas Of Interest:

1. Biological behaviour of thyroid cancer in endemic region.
2. Characterization of nodular thyroid lesions in endemic population of sub-Himalayan region employing US-guided FNAC.
3. Characterization of nodular thyroid lesions using in-vivo and ex-vivo proton MR spectroscopy in patients with endemic goiter.
4. Feasibility of Short hospital stay thyroid surgery in a developing country.
5. Biological behaviour of Parathyroid tumors in the background of low calcium intake and/or vitamin D deficiency.
6. The pattern of skeletal remineralization after parathyroidectomy in severe skeletal disease due to primary hyperparathyroidism

Research Grants:

1. Hormone & lipid profile in Benign breast disease, and the effect of dietary modification on symptomatic patient (Intramural).
2. Prevalence & characterization of nodular thyroid lesion in endemic goitrous subjects of Distt. Pandrauna, UP, (Intramural).
3. Study of Prevalence and characterization of nodular thyroid lesions in the endemic goiter population in the state of Uttar Pradesh by field survey using US- guided FNAC: a collaborative study with the Endocrine Group, Department of Surgery II, Nagoya University Medical School, Nagoya, Japan. (a project funded by JICA).
4. Study of expression of ras & ret / PTC oncogene in thyroid cancer in endemic goiter population. A collaborative study with Dept. of Surgery II, (Endocrine Group), Nagoya University Medical School, Nagoya, Japan. (project funded by JICA).

Publications :

Chapter Contributed In Textbook:

- Agarwal A, Agarwal G, Mishra SK. Parathyroid tumours. In book titled "Elements of Oncology for General Surgeons," published by Indian Association of Surgical Oncology, 1996.

Publications In Refereed Journals:

1. SK Mishra, AK Sharma, S Thakur. Outpatient & short stay thyroid surgery- letter to editor. Head & Neck 1992;14:247-8.
2. AK Sharma, R Surange, SK Mishra. Safety of surgical procedures by residents (brief communication). Arch.Surg. 1992;127:993-4.
3. AK Sharma, S Sree, SK Mishra. Tubercular mastitis: a pragmatic approach to its management. The Aust. NZ. J. Surg. 1993;63:263-265.
4. EM Khan, R Pandey, SK Mishra, AK Sharma. Tuberculosis of thyroid. Aust NZ J Surgery 1993;63:807-810.
5. V Bhatia, R Shukla, SK Mishra, RK Gupta. Adrenal tumour complicating untreated 21- hydroxylase deficiency in a five year old boy. Am J Dis Child, 1993;147:1321-3.
6. AK Sharma, D Gupta, SK Mishra. Progressive systemic sclerosis and carcinoma breast: does an association exist. J Assoc. Physicians India, 1993;41:528.
7. AK Sharma. SK Gupta, SK Mishra. Association of thyroid disorders with acromegaly; and with the development of breast disease. J Assoc Physicians India, 1993;41:400-1.
8. AK Sharma, SK Mishra. Short stay thyroidectomy in a tertiary care hospital. Natl Med J India, 1993;6:210-1.
9. R Surange, AK Sharma, SK Mishra. , Reoperative thyroid surgery. A letter to the editor. Surgery, 1994;115:271.

- 10.KD Modi, AK Sharma, SK Mishra. Recurrence of Graves Disease after 40 years, JAPI, 1994;42:507.
- 11.SK Mishra, AK Sharma, M Salila, AK Srivastav, S Bal, V Ramesh. Efficacy of low fat diet in the treatment of benign breast disease. Natl Med J India. 1994;7:60-62.
- 12.AK Sharma, P Agarwal, S Gambhir, SK Mishra, RV Phadke. Interventional radiology in the management of superior thyroid artery injury which presents as a diagnostic dilemma. Australasian Radiology 1994; 38:,70-71.
- 13.AK Sharma, SK Mishra, M Salila, V Ramesh, S Bal. Cyclical mastalgia-Is it a manifestation of aberration in lipid metabolism. Indian J Physiol Pharmacol 4;38(4):267-271.
- 14.Trivedi N, Mithal A, Sharma AK, Mishra SK, Pandey R, Trivedi B, Daughaday WH. Non-islet cell tumour induced hypoglycemia with acromegaloid facial and acral swelling. Clinical Endocrinology, 1995;42:433-435.
- 15.Thakur S, Mishra SK, Sharma AK. Use of pulse oximetry in peripheral arterial injury. Indian Journal of Thoracic and Cardiovascular Surgery. 1994;10:67-68.
- 16.Sharma AK, Mishra SK, Intraoperative hypertension during thyroidectomy for grave's disease. JAPI, 1995;43(5):34-35.
- 17.Thakur S, Sharma AK, Agarwal A, Mishra SK. Bhatia E. Carcinoma in grave's disease. JAPI, 1995;43(9):600-601.
- 18.Modi KD, Sharma AK, Mishra SK, Mithal A. Pulse oximetry for the assessment of autonomic neuropathy in diabetic patients. (Accepted for publication in J Diab complications) 1996.
- 19.Agarwal A, Mishra SK. Completion thyroidectomy in the management of differentiated thyroid carcinoma. Aust. N.Z. J. Surg.(1996);66:358-360.
- 20.Agarwal G, Mishra SK, Agarwal A, Bhatia V. Adreno cortical neoplasm in children: Clinico-pathological profile of 5 cases &

review of literature. (Accepted for publication in Indian Paediatrics, 1996).

21. Agarwal A, Mishra SK, Baijal SS, Agarwal G. Intraoperative ultrasonography for insulinoma: a preliminary experience (Accepted for publication in Indian Journal of Gastroenterology 1997;16:1-)
22. AK Verma, Devising an instant skin hook at the operation table using a syringe and needle, (how I do it). J of Am Coll of Surgeons 1994;179:225.

Presentation At International Conferences:

1. SK Mishra, AK Sharma, A Shah, S Roy, A Mithal. "Spontaneous resolution of suspected aldosterone producing adenoma". 3rd Congress of Asian Association of Endocrine Surgeons, Taichung, Taiwan. February, 1992.
2. SK Mishra, N Trivedi, E Bhatia. "Childhood malignant extra-adrenal pheochromocytoma". 3rd Congress of Asian Asso. of Endocrine Surgeons, Taichung, Taiwan, February 1992.
3. SK Mishra, AK Sharma. Re-Do Thyroidectomy. Xth Asian Pacific Federation Congress of International College of Surgeons and 39th Annual Conference of International College of Surgeons Indian- Section, Bangalore Nov., 1993.
4. SK Mishra, AK Sharma. Tubercular Mastitis Xth Asia Pacific Federation Congress of International College of Surgeons and 39th Annual Conference of International College of Surgeons- Indian Section, Bangalore Nov., 1993.
5. Agarwal A, Agarwal G, Mishra SK. Superior mediastinal dissection for differentiated thyroid cancers. UICC Congress, New Delhi, 1994.

6. Mishra SK, Agarwal G, Agarwal A. Short stay thyroidectomy in a tertiary care hospital. Annual conference of the Japanese surgical society. Japan. 1995.
7. Mishra SK, Agarwal A, Agarwal G. Feasibility of short stay thyroid surgery in a developing country. 3rd World congress SEE. Kiel, Germany, 1995.
8. Agarwal A, Agarwal G, Mishra SK. Classic bone disease: still predominating - the clinical picture of primary hyperparathyroidism in 1990's Indian experience. 5th Congress of Asian Association of Endocrine Surgeons, Hyderabad, 1996.
9. Agarwal A, Agarwal G, Mishra SK. Clinico-pathological profile of bacterial thyroiditis (poster). 5th Congress of Asian Association of Endocrine Surgeons, Hyderabad, 1996.
10. Mishra SK, Agarwal A. Total thyroidectomy - treatment of choice for differentiated thyroid cancer. 5th Congress of Asian Association of Endocrine Surgeons, Hyderabad, 1996.
11. Verma AK. A simple technique of pancreatic islet/fetal pancreas transplantation in the renal sub-capsule. 15th world congress, CICD, Seoul, South Korea, 1996.

Participation in International Workshop:

1. Dr. SK Mishra attended the first International postgraduate course in Endocrine Telesurgery, at Strasbourg, France, held on 12th-15th February, 1997.

Presentations In National Conferences :

1. TP Singh, SK Mishra. Unusual parotid tumors report of 3 cases, UPASICON, held at Agra in November, 1990.
2. TP Singh, SK Mishra. Management of Insulinoma 2 cases, UPASICON held at Agra in November, 1990.

3. AK Sharma, SK Mishra. Isolated superior thyroid artery injury presenting as diagnostic dilemma XVII annual conference UPASICON, Kanpur. Nov. 1991.
4. AK Sharma, SK Mishra, S Thakur, R Surange, E Bhatia. "Problems in pheochromocytoma and mode of management". XVII annual conference UPASICON, Kanpur. Nov. 1991.
5. R Surange, SK Mishra, AK Sharma, S Thakur. "Re-do thyroidectomy: surgical approach". XVII annual conference UPASICON, Kanpur. Nov. 1991.
6. R Surange, AK Sharma, S Thakur, SK Mishra, SS Baijal. "Tuberculosis of Thyroid." XVII annual conference UPASICON, Kanpur. Nov. 1991.
7. S Thakur, AK Sharma, A Shah, SK Mishra. "Conn's syndrome" report of three cases. XVII annual conference UPASICON, Kanpur. Nov. 1991.
8. AK Sharma, SK Mishra, A Shah, S Thakur. "Insulinoma - experience at SGPGI", Lucknow. 22nd annual ESICON held by Endocrine Society of India, Chandigarh. Oct. 1991.
9. Dr. SK Mishra delivered a guest lecture on Endocrine Tumor of Pancreas in the IInd Annual Conference of UP Chapter of Indian Society of Gastroenterology, held at Lucknow in March 8th & 9th, 1991.
10. AK Sharma, SK Mishra, N Trivedi, S Thakur, SK Gupta. "Surgically treatable endocrine hypertension". 22nd annual ESICON, Endocrine Society of India, Chandigarh. Oct. 1991.
11. Dr. SK Mishra delivered a guest lecture on "Management of Nodular Lesions of Thyroid" at the I.M.A. meeting, Bareilly in March, 1992.
12. AK Sharma, A Shah, P Gupta, SK Mishra, A Mithal, SS Baijal. "Doppler detected subclinical varicocele". North zone chapter annual conference of Urology, Lucknow. Sept. 1992.

13. AK Sharma, N Trivedi, SK Mishra, A Mithal. "Endocrine Hypertension due to adrenal pathology". North zone chapter annual conference of Urology, Lucknow. Sept. 1992.
14. SK Mishra, AK Sharma, B Satyasree, S Bal, V Ramesh, CM Pandey, MM Godbole. "Low fat dietary regimen in the treatment of benign breast disease". XVIII Annual Conference of the UPASICON, Meerut. Sept. 1992.
15. SK Mishra, AK Sharma, A Shah, N Trivedi, P Gupta, SS Baijal, A Mithal. Doppler detected subclinical varicocele - a preliminary report. XVIII Annual Conference of the UPASICON, Meerut. Sept. 1992.
16. AK Sharma, SK Mishra, R Surange, B Satyasree, A Mithal, MM Godbole. Predisposition to neoplasia / hyperplasia in the patients with underlying thyroid disorders. 23rd annual ESICON, Puri, Nov. 1992.
17. SK Mishra, AK Sharma, R Surange, N. Trivedi, A Mithal. Short stay thyroid surgery. 23rd annual ESICON, Puri, Nov. 1992.
18. K Modi, AK Sharma, R Surange, PK Singh, SK Mishra, A Mithal. Pulse oximetry in the evaluation of autonomic neuropathy. 23rd annual ESICON, Puri, Nov. 1992.
19. AK Sharma, SK Mishra, R Surange, S Sree, A Mithal, MM Godbole. Predisposition to neoplasia/hyperplasia in the patients with underlying thyroid disorder. XVIII Annual Conference of the UPASICON, Meerut. Sept. 1992.
20. SK Mishra, AK Sharma, Salila M, R Surange, S Bal, V Ramesh. Low fat dietary regimen in the treatment of benign breast disease. 23rd annual ESICON, Nov. 1992.
21. AK Sharma, Salila M, R Surange, SK Mishra, V Ramesh, S Bal, MM Godbole. Cyclical mastalgia: is it a manifestation of lipid profile abnormalities? 23rd annual ESICON, 1992.

22. SK Gupta, R Surange, AK Sharma, SK Mishra, A Mithal. Tuberculosis of thyroid. 23rd annual ESICON, Puri, 1992.
23. N Trivedi, AK Sharma, VK Kapoor, SK Mishra, R Pandey and A Mithal. Non islet cell tumour induced hypoglycemia with acromegaloid features. 23rd annual ESICON, Puri, Nov. 1992.
24. AK Sharma, SK Mishra, V Ramesh, Salila M, MM Godbole, S Bal. Effect of low fat diet on hormonal and lipid profile in the patients with benign breast disease. 2nd annual conference of AMBI, May 93, Pune.
25. AK Sharma, SK Mishra, V Ramesh, Salila M, S Bal. Aberrations in lipid profile: a comparative study of patients with cyclical mastalgia with that of noncyclical mastalgia. 2nd annual conference of AMBI, May 1993, Pune.
26. AK Sharma, A Agrawal, SK Mishra. "Intraoperative hypertension during thyroidectomy for graves' disease". UPASICON 1993, Allahabad.
27. AK Sharma, S Thakur, SK Mishra, E Bhatia, R Pandey. Does an association between thyroid carcinoma & Grave's disease exist? UPASICON 93, Allahabad.
28. A Agrawal, AK Sharma, SK Mishra. "Short stay thyroidectomy in a tertiary care hospital". UPASICON 1993, Allahabad.
29. SK Mishra, AK Sharma, SS Baijal, "Intraoperative ultrasonography in the localization of insulinoma -Preliminary report". UPASICON 1993, Allahabad.
30. A Agrawal, AK Sharma, SK Mishra. "An audit of diabetic foot patients with severe sepsis to find out the factors predicting mortality". UPASICON 93, Allahabad.
31. A Agrawal, AK Sharma, SK Mishra, E Bhatia, R Pandey, BK Das. Clinico-pathological profile of bacterial thyroiditis. 24th ESICON, Bombay, Nov.93.

32. S Thakur, A Agrawal, AK Sharma, SK Mishra, E Bhatia, R Pandey, BK Das. Thyroid Carcinoma in Graves' Disease. 24th ESICON, Bombay, Nov., 1993.
33. AK Srivastava, Salila M, SK Mishra, AK Sharma, S Bal, V Ramesh. Abnormally high fat intake resulting in breast pain - investigative cross-sectional study. Annual Conference Nutrition Society of India, November 1993, Hyderabad.
34. A Agarwal, SK Mishra, AK Sharma, Thakur S. Short stay thyroidectomy in a tertiary care hospital. 53rd Annual conference of Association of surgeons of India, Madras, 1993.
35. A Agarwal, SK Mishra, S Thakur. Carcinoma in grave's disease. 53rd Annual conference of the Association of surgeons of India, Madras 1993.
36. SK Mishra, AK Sharma, S Thakur, A Agarwal, G Agarwal. Re-operative thyroid surgery for thyroid carcinoma. 25th ESICON, Pondicherry, Nov. 1994.
37. G Agarwal, A Agarwal, P Gupta, SK Mishra, AK Verma, A Mithal, E Bhatia, RK Gupta. Primary Hyperparathyroidism, SGPGIMS experience. 25th ESICON, Pondicherry, Nov. 1994.
38. Dr. SK Mishra delivered a lecture on "Aetiopathogenesis of hyperthyroidism" in the symposium on Hyperthyroidism. 51st Annual Conference of ASI, Cuttack, Dec., 1994.
39. A Agarwal, SK Mishra, G Agarwal. Aggressive behaviour of the papillary thyroid carcinoma in a endemic goiter zone. 54th Annual conference of Association of surgeons of India, Cuttack 1994.
40. Agarwal G, Mishra SK, Agarwal A. Grave's disease: a plea for surgical management. 50th annual conference of ESI, Ahmedabad, 1995.

- 41.A Agarwal, SK Mishra, G Agarwal. Interesting cases in Endocrine Surgery. 55th Annual conference of the Association of surgeons of India, Jodhpur 1995.
- 42.A Agarwal, SK Mishra, G Agarwal. Clinico-pathological profile of functioning Adreno-cortical tumors in children. 55th Annual conference of Association of surgeons of India, Jodhpur 1995.
- 43.G Agarwal, SK Mishra, V Bhatia, A Agarwal. Adreno-cortical tumours in children- clinico-pathological profile. 2nd Biennial conference of Indian Society of Oncology, Lucknow,1996.
- 44.G Agarwal, SK Mishra, A Agarwal. Total thyroidectomy: optimal treatment for differentiated thyroid cancers. (Poster) 2nd Biennial conference of Indian Society of Oncology, Lucknow,1996.
- 45.SK Mishra, A Agarwal, SS Baijal, G Agarwal. Intraoperative ultrasonography in the management of pancreatic insulinomas. Midterm conference of Indian Association of Endocrine Surgeons, Madurai, November, 1996.
- 46.SK Mishra, A Agarwal, G Agarwal, A Mithal, E Bhatia. Advanced musculo-skeletal manifestations of primary hyperparathyroidism. 27th annual conference of Endocrine Society of India, Cochin, December, 1996.
- 47.G Agarwal, SK Mishra, A Agarwal. Clinico-pathological profile of advanced musculo-skeletal manifestations of primary hyperparathyroidism. 56th Annual conference of Association of Surgeons of India, Bombay, 1996.
- 48.G Agarwal, A Agarwal, SK Mishra. Total thyroidectomy: Treatment of choice for differentiated thyroid cancers. 56th Annual conference of Association of Surgeons of India, Bombay, 1996.
- 49.G Agarwal, A Agarwal, SK Mishra. Aggressive behaviour of papillary thyroid cancer in endemic iodine deficient population.

56th Annual conference of Association of Surgeons of India, Bombay, 1996.

- 50.A Agarwal, SK Mishra, G Agarwal. Role of trans-sternal thymectomy in management of myasthenia gravis. 56th Annual conference of Association of Surgeons of India, Bombay, 1996.

Visiting Scientists :

1. Dr. H. Funahashi, Endocrine Surgeon and Assistant Professor, Department of Surgery II, Nagoya University Medical School, Nagoya, Japan, visited the department under the exchange programme from 24.20.94 to 21.11.94.
2. Dr I. Mitra, FRCS, PhD, Surgeon and Scientist, Tata Memorial Hospital, Bombay, visited the department in December, 1995.
3. Dr. Masaki Wada, Staff in the department of Surgery II Endocrine Group, visited the department in April, '96.
4. Dr. Tsuneo Imai, MD, PhD., Assistant Professor in the department of surgery II, Endocrine Group, visited the department between 18th Oct., 1996 to 20th Nov, 1996.

Conferences Organized:

1. First Post Graduate Course in Endocrine Surgery, Oct' 1993.
2. Second Post Graduate Course in Endocrine Surgery and Indo-Japanese Workshop on Parathyroid Surgery, Jan, 1996.
3. Third Post Graduate Course in Endocrine Surgery and Indo-Japanese Workshop on Thyroid Cancer is scheduled to be held, May, 1997.
4. Third Annual conference of Indian Association of Endocrine Surgeons is to be organized by the department of Endocrine Surgery, at SGPGIMS in Dec, 1997.

Future Plans

Clinical:

1. To start minimal invasive surgery in the field of endocrine surgery.
2. To start pancreatic transplantation as and when the cadaveric donor programme takes off in the State.

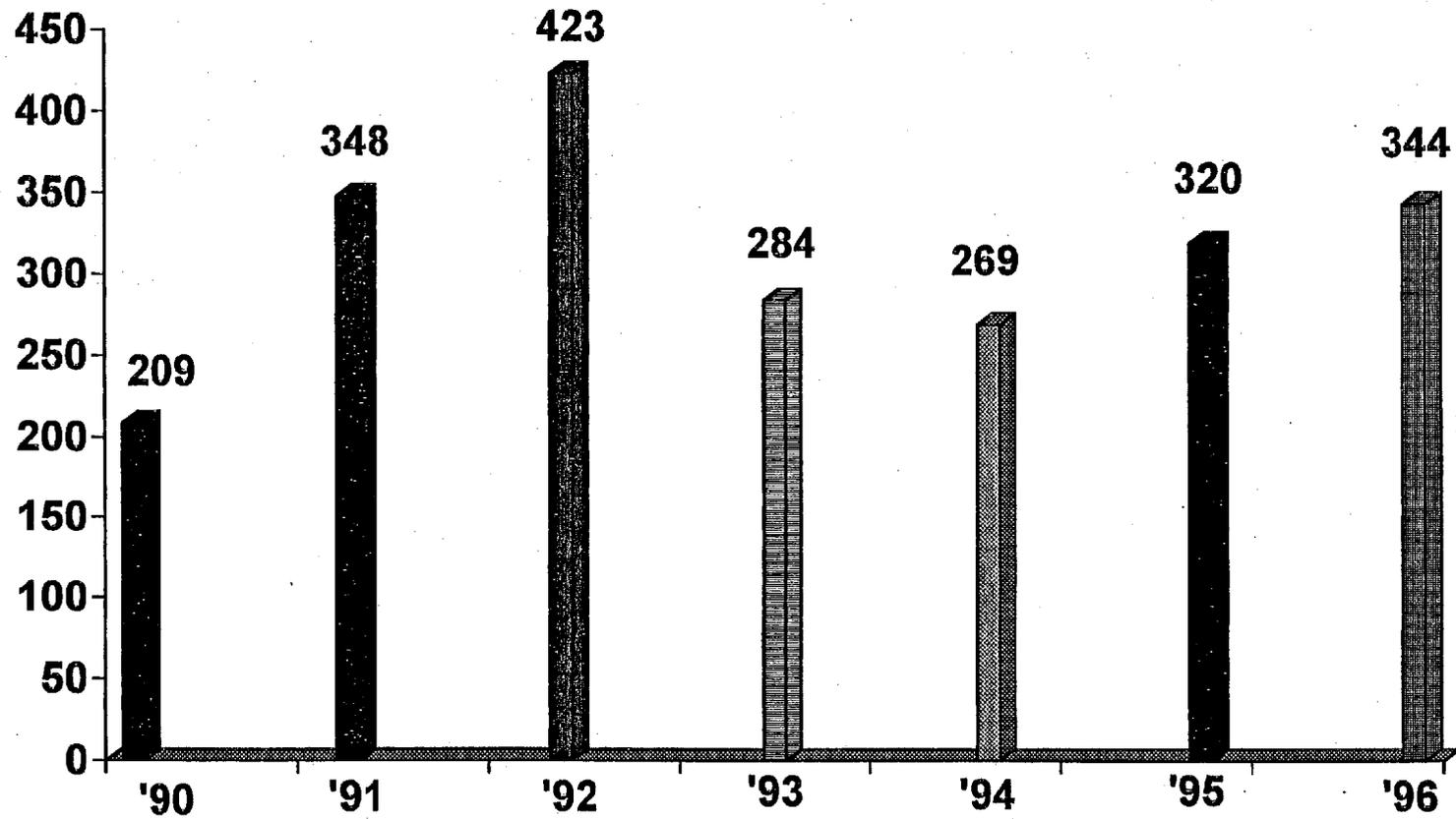
Teaching and Training:

To start three years integrated teaching programme (MCh course).

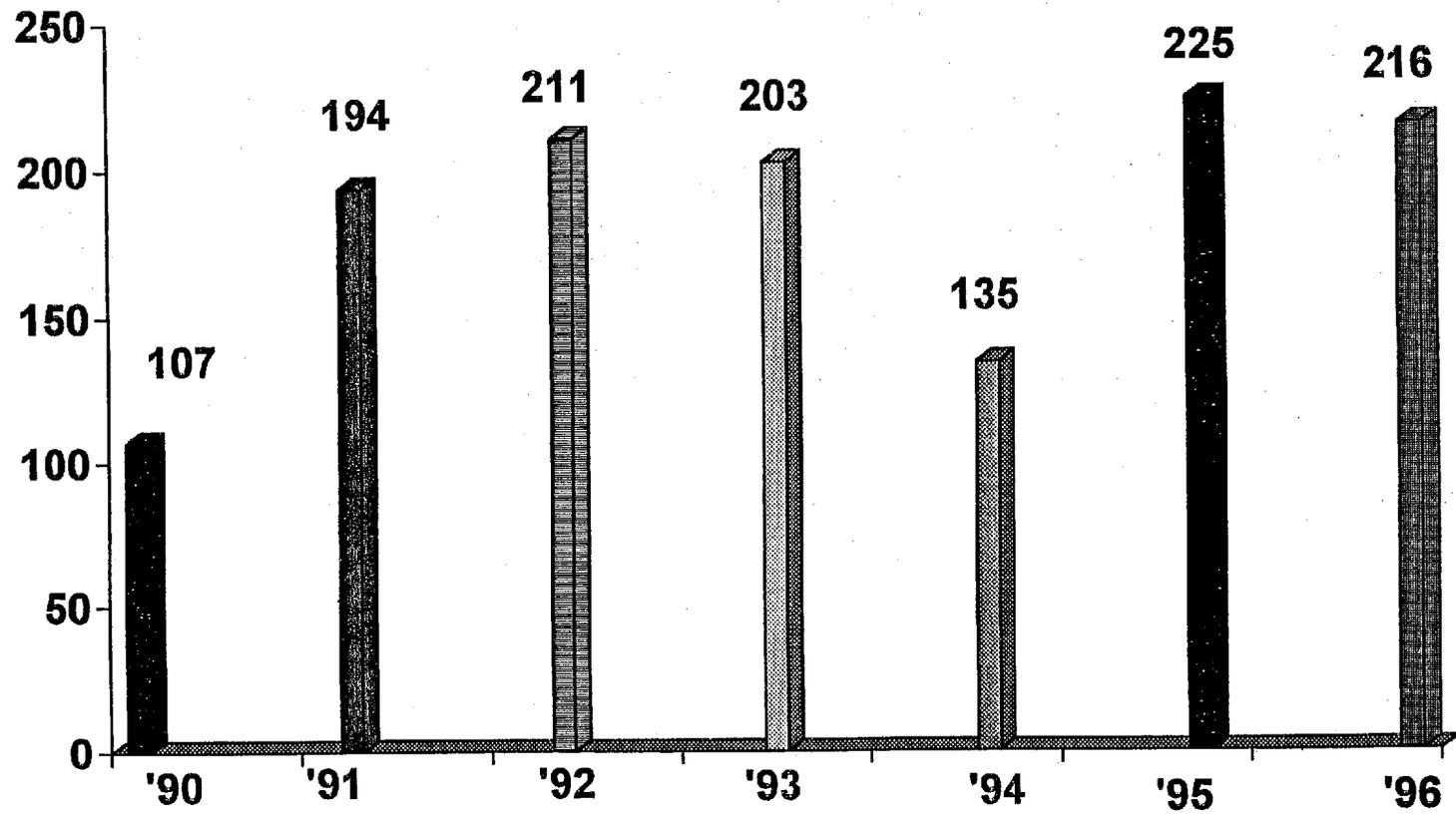
Research:

To start endocrine surgery research laboratory..

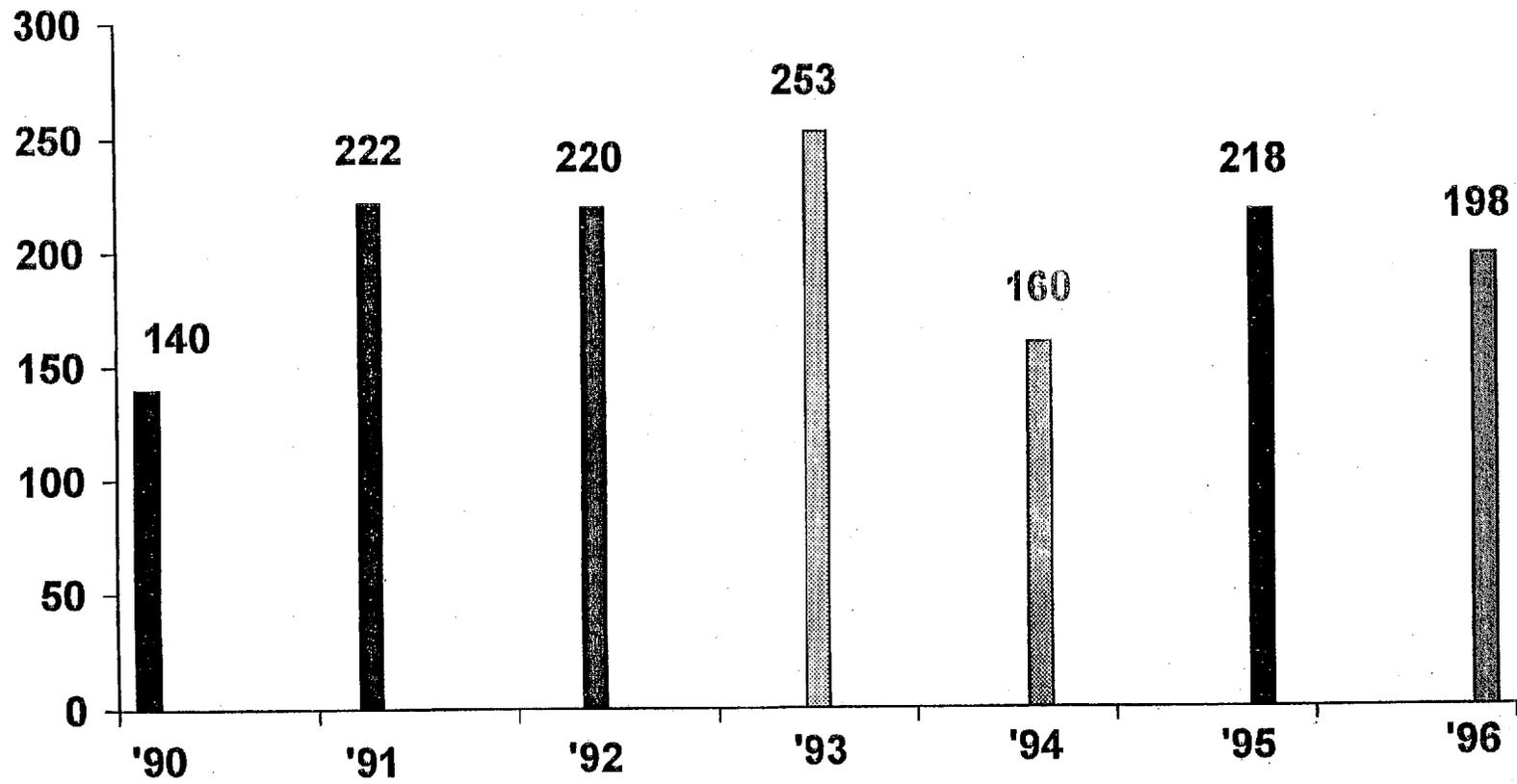
New cases seen in OPD



Indoor Admissions



Total Operations



Operations performed

YEARS	'90	'91	'92	'93	'94	'95	'96
Hemithyroidectomy	18	17	23	39	11	24	25
Sub-total Thyroidectomy	42	35	44	29	23	15	08
Total thyroidectomy	04	21	22	25	24	41	41
Parathyroidectomy	01	01	02	03	03	03	02
Adrenalectomy	04	06	02	04	01	03	03
Distal Pancreatectomy	03	00	03	00	00	02	01
Thymectomy	01	01	01	04	04	03	08
Modified Radical Mastectomy	08	02	17	19	25	31	25
Minor Breast Procedures	03	21	13	18	23	24	27
Vaso-Epididymostomy	02	06	07	03	06	03	04
Minor Testicular Procedures	18	39	38	15	10	15	03
Procedures for Diabetic Foot	03	05	04	12	03	11	20
Superficial Parotidectomy	01	02	01	04	01	05	00
Total Parotidectomy	02	01	04	00	01	05	02
Submandibular Gland Exc.	00	01	00	04	00	03	01
Miscellaneous	30	41	39	90	20	20	28

A
LIST
OF
BIOMEDICAL EQUIPMENTS/INSTRUMENTS
IN
S.G.P.G.I.M.S.

As of 1997

COMPILED
BY
BIOMEDICAL ENGINEERING DEPARTMENT
SANJAY GANDHI POST GRADUATE INSTITUTE OF MEDICAL SCIENCES
LUCKNOW

● Contents (in order of Alphabet)

□ Anaesthesiology -----	1
- SICU, 1	
- KTU, 4	
- Station, 4	
□ Cardiology -----	5
- T.M.T. Lab., 5	
- N.I. Lab., 5	
- Cardiac Catheterization Lab., 5	
- MICU, 6	
□ CSSD -----	8
□ C.V.T.S. -----	9
- Operation Theatre, 9	
- Ward, 9	
□ Endocrine Medicine -----	10
□ Endocrine Surgery -----	13
- Laboratory, 13	
- Operation Theatre, 13	
- Ward, 13	
□ Gastroenterology -----	14
- Gastro Lab., 14	
- Endoscopy Lab., 14	
□ Immunology -----	17
□ Medical Genetics -----	24
□ Microbiology -----	32
□ Nephrology -----	35
- Dialysis Unit, 35	
- Ward, 36	

□ Neurology -----	37
- Neuro Lab., 37	
- EEG Department, 37	
□ Neuro Surgery -----	38
- Operation Theatre, 38	
- Station, 41	
- Physical Rehabilitation, 42	
- Neuro-ophthalmology, 43	
- Neuro-otology, 43	
□ Nuclear Medicine -----	44
□ Pathology -----	45
□ Radiology -----	52
□ Radiotherapy -----	53
□ Surgical Gastroenterology -----	54
- Operation Theatre, 54	
- Ward, 54	
□ Transfusion Medicine -----	55
□ Urology -----	56
- Operation Theatre, 56	
- Station, 56	
- Ward, 57	

● Scope and Object

This list is compiled to show the status of biomedical equipments and hospital laboratory equipments which have been provided by JICA (under the grant in aid and technical cooperation programmes), SGPGI and any other funding agencies.

This list includes all biomedical equipments and hospital laboratory equipments/instruments which need the maintenance on the field of biomedical engineering. Therefore, it does not include equipments/instruments such as personal computers, stretchers, timers, blood counters and audio visual equipments.

● Attention

Because the survey has not been completed due to multiplicity factors, the accurated data for some equipments is not compiled, and many equipments excluded from this list are still remained. In addition to this, the Data Base should also be prepared, in order to show more details of each equipment such as service history, spare parts available, AMC detail and so on. In this regard, the survey should be continued.

● Key

□ CODE NO.:

The code number for each equipment is not available. It is advisable that the code number should be made in order to make sure the equipment to be identified individually; each equipment has been identified by using Serial Number

for the time being.

The head characters are classified into the following categories:

G: Provided by JICA grant in aid.

T: Provided by JICA technical cooperation programme.

S: Provided by SGPGI.

W: Provided by any other funding agencies, e.g., WHO.

□ GROUP/TYPE

The inspection item and frequency of the maintenance depends on the GROUP/CLASS/TYPE of equipment. This can be classified into the following categories:

— GROUP

Group-1: Energised equipment. Examples of this type of equipment include electrosurgical units, invasive blood pressure monitors, LASER coagulators, syringe pumps, hemodialysis equipments, ventilators, etc.

Group-2: Pace makers.

Group-3: Energised equipment not specified in group 1 and in group 2. Examples of this type of equipment include ECGs, EEGs, patient monitors, blood gas analyzers, suction machines, etc.

Group-4: All other equipment. Examples of this type of equipment include clinical lights, electro-motor beds, rehabilitation machines, electro operating tables, etc.

- CLASS

Class-I : Equipment in which protects against electric shock on basic insulation with protective earth.

Class-II : Equipment in which protects against electric shock on basic insulation with reinforced insulation.

Internally Powered : Equipment in which protects against electric shock on basic insulation with internal powered supply.

- TYPE

Type B : This type of equipment generally has indirect contact with the body skin.

Type BF: This type of equipment has floating circuits which protect against any current flowing from another equipment via patient while the equipment operated together.

Type CF: This type of equipment has direct contact with the heart of the patient.

DATE OF INST.:

Date of Installation; due to unavailability of information from each department, the date of installation particularly for "S" and "W" mentioned in CODE NO. could not be filled up.

All the equipment provided by JICA grant in aid programme were noted down that they were installed from 1987 to 1989 though some of them were actually installed later

on from that years due to delay of the construction of buildings. It must be remembered that the status of an equipment would be decreased even though it has been just in stores.

STATUS:

The status of equipment is classified into the following categories:

- Working condition

GC: Working well.

WC: Working with some troubles.

NW: Not working.

- Utilization

A: Fully utilized.

B: Partially utilized.

C: Not utilized.

PRICE:

Approximate price of main body in ¥, Rs., US\$, etc.

REMARKS:

It is filled up by some comments such as measures against the status, examination, maintenance, repairs, etc.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Anaesthesiology

CODE NO.	NAME OF EQUIPMENT [SICU]	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Defibrillator	N. KOHDEN/TEC-5200B	21374	1/CF	1987/88	NW,	¥1,230,000	Spare parts unavailable.
G-	Patient Monitor	N. KOHDEN/OEC-8108K	00071	3/BF	1987/88	GC, A	¥1,460,000	
G-	Recorder	N. KOHDEN/WT-811PA	--		1987/88	GC, B	¥416,000	
G-	Patient Monitor	N. KOHDEN/OEC-8108K	00068	3/BF	1987/88	GC, A	¥1,460,000	09/1996, repaired by BMED.
G-	Recorder	N. KOHDEN/WT-811PA	--		1987/88	GC, B	¥416,000	
G-	Patient Monitor	N. KOHDEN/OEC-8108K	00072	3/BF	1987/88	GC, A	¥1,460,000	09/1996, repaired by BMED.
G-	Recorder	N. KOHDEN/WT-811PA	--		1987/88	GC, B	¥416,000	
G-	Patient Monitor	N. KOHDEN/OEC-7201K	21690	3/BF	1987/88	GC, A	¥1,969,000	09/1996, repaired by BMED.
G-	Recorder	N. KOHDEN/WT-722RJ	30957		1987/88	GC, B	¥55,1000	
G-	Patient Monitor	N. KOHDEN/OEC-7201K	--	3/BF	1987/88	GC, A	¥1,969,000	
G-	Recorder	N. KOHDEN/WT-722RJ	30971		1987/88	GC, B	¥55,1000	
G-	Patient Monitor	N. KOHDEN/OEC-7201K	21699	3/BF	1987/88	GC, A	¥1,969,000	09/1996, repaired by BMED.
G-	Recorder	N. KOHDEN/WT-722RJ	30900		1987/88	GC, B	¥55,1000	
G-	Infant Warmer	ATOM/V-3200D	07096		1987/88	GC, A	¥733,000	12/1996, repaired by BMED.
G-	3ch ECG	N. KOHDEN/ECG-6353	000646	3/BF	1987/88	NW,	¥521,000	
G-	Non-invasive B. P.M.	N. KOHDEN/MPV-7201	000260	3/	1987/88	GC,	¥425,000	08/1996, repaired by BMED.
G-	Non-invasive B. P.M.	N. KOHDEN/MPV-7201	000257	3/	1987/88	GC,	¥425,000	08/1996, repaired by BMED.
G-	Nebulizer	Nakamura/U-3B	7062019	3/	1987/88	WC, C	¥135,000	Awaiting for spare parts.
G-	Nebulizer	Nakamura/U-3B	7062021	3/	1987/88	WC, C	¥135,000	Awaiting for spare parts.
G-	Ventilator	Ohmeda/WG167	3162	1/	1987/88	GC, B		07/1996, repaired by BMED.
G-	Ventilator	BENNET/MA-2	9834B	1/	1987/88	NW,	¥4,414,000	Replaced for new equipment.
G-	Ventilator	BENNET/MA-2	8721522	1/	1987/88	NW,	¥4,414,000	Replaced for new equipment.
G-	Ventilator	BENNET/MA-2	8721516	1/	1987/88	NW,	¥4,414,000	Replaced for new equipment.
G-	Ventilator	BENNET/MA-2	8721523	1/	1987/88	NW,	¥4,414,000	Replaced for new equipment.
G-	Anaesthesia Apparatus	ACOMA/PH-3F	14847	1/	1987/88	GC, A	¥1,697,000	
G-	Table-top Autoclave	SANYO/MAC-1200	0007		1987/88	GC, A	¥152,000	
G-	Incubator	SANYO/MIR-260	8070974		1987/88	GC, A	¥200,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Anaesthesiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
T-	Servo Ventilator	SIEMENS/SV-900C	158140	1/	1993	NN,	₹8,300,000	Being repaired by local agent.
T-	Medical Air Compressor	IWATA/	--		1993	GC, A		12/1996, examined by BMED.
T-	Servo Ventilator	SIEMENS/SV-900C	158149	1/	1993	GC, A	₹8,300,000	Under AMC.
T-	Medical Air Compressor	IWATA/	--		1993	GC, A		12/1996, examined by BMED.
T-	Servo Ventilator	SIEMENS/SV-900C	158141	1/	1993	GC, A	₹8,300,000	Under AMC.
T-	Medical Air Compressor	IWATA/	--		1993	GC, A		12/1996, examined by BMED.
T-	Servo Ventilator	SIEMENS/SV-900C	172289	1/		GC, A		Under AMC.
S-	Servo Ventilator	SIEMENS/SV-900C	158180	1/		GC, A		Under AMC.
S-	Servo Ventilator	SIEMENS/SV-900C	172290	1/		GC, A		Under AMC.
S-	Servo Ventilator	SIEMENS/SV-900C	158136	1/		GC, A		Under AMC.
S-	Servo Ventilator	SIEMENS/SV-900C	172292	1/		GC, A		Under AMC.
S-	Ventilator	Drager/EVITA-2	8410863	1/		NN,		
S-	Ventilator	Drager/EVITA-2	8410863	1/		NN,		
S-	Ventilator	Drager/EVITA-2	8410863	1/		NN,		
S-	Ventilator	Bearcub/SP2001	12997	1/		GC, B		
S-	Syringe Pump	Graseby/3100	020149	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	023329	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024340	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	020704	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	020579	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	020711	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	020155	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024692	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	020173	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	020164	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024668	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	023341	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024583	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024727	1/		GC, A		Under warranty.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Anaesthesiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
S-	Syringe Pump	Graseby/3100	020219	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024680	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024677	1/		GC, A		Under warranty.
S-	Syringe Pump	Graseby/3100	024010	1/		GC, A		Under warranty.
G-	Infusion Pump	NAKAMURA/SP-60	1538	1/	1987/88	GC,	¥278,000	1996, repaired by BHED.
G-	Infusion Pump	Nakanura/FP-950	3062	1/	1987/88	GC,	¥278,000	08/1996, repaired by BHED.
G-	Infusion Pump	Nakanura/FP-950	3060	1/	1987/88	NC,	¥278,000	Replaced for new equipment.
G-	Infusion Pump	Nakanura/FP-950	3057	1/	1987/88	NC,	¥278,000	Replaced for new equipment.
G-	Infusion Pump	Nakanura/FP-950	3063	1/	1987/88	NC,	¥278,000	Replaced for new equipment.
G-	Infusion Pump	Nakanura/FP-950	3065	1/	1987/88	NC,	¥278,000	Replaced for new equipment.
G-	Infusion Pump	Nakanura/FP-950	3066	1/	1987/88	NC,	¥278,000	Replaced for new equipment.
G-	Infusion Pump	Nakanura/FP-950	3068	1/	1987/88	NC,	¥278,000	Replaced for new equipment.
G-	Infusion Pump	Nakanura/FP-950	3070	1/	1987/88	NC,	¥278,000	Replaced for new equipment.
S-	Infusion Pump	Diginfusa/R-100	A95424	1/		GC, A		
S-	Infusion Pump	Diginfusa/R-100	A94246	1/		GC, A		
S-	Infusion Pump	Diginfusa/R-100	A94253	1/		GC, A		
S-	Infusion Pump	Diginfusa/R-100	A94247	1/		GC, A		
S-	CO2 Analyzer	SIEMENS/EO37E-CA930	18475	3/		GC, A		
S-	Logic Ventilator	Ohmada/Logic07	6165	1/		GC,		08/1996, repaired by BHED.
S-	Ripple Heat B. Warer	HAWKLEY/88-4-28	06400	4/		GC, A		02/1997, repaired by BHED.
S-	Ripple Heat B. Warer	HAWKLEY/88-4-28	06400	4/		GC, A		04/1997, repaired by BHED.
S-	Blood Gas Analyzer	AVL/902-S	1260	3/		GC, A		Under AMC.
S-	Blood Gas Analyzer	AVL/945	1652	3/		GC, A		U. AMC. 21/01/97, repaired by BHED.
G-	Blood Gas Analyzer	AVL/945	1811	3/	1987/88	NW,		Replaced for new equipment.
S-	Patient Monitor	SIEMENS/SIRECUST-1261	01215S02	3/BF		GC, A		Under warranty.
S-	Patient Monitor	SIEMENS/SIRECUST-1261	01998S02	3/BF		GC, A		Under warranty.
S-	Patient Monitor	SIEMENS/SIRECUST-1261	--	3/BF		GC, A		Under warranty.
S-	Patient Monitor	SIEMENS/SIRECUST-1261	012040S02	3/BF		GC, A		Under warranty.
S-	Patient Monitor	SIEMENS/SIRECUST-1261	01229SS02	3/BF		GC, A		Under warranty.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Anaesthesiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
S-	Patient Monitor	SIEMENS/SIRECUST-1261	012030S02	3/BF		GC, A		Under warranty.
S-	Patient Monitor	SIEMENS/SIRECUST-1261	012039S02	3/BF		GC, A		Under warranty.
S-	Patient Monitor	SIEMENS/SIRECUST-1261	012033S02	3/BF		GC, A		Under warranty.
S-	O2 Saturation Monitor	MINORTA/Pulsox-7	30002502	3/		GC, A		
S-	O2 Saturation Monitor	MINORTA/Pulsox-7	30002489	3/		GC, A		
S-	Pulse Oximeter	Nelcor/N180	20968740	3/		GC, A		
S-	Pulse Oximeter	Nelcor/N180	20968776	3/		GC, A		
S-	Alternating P. Pump	/7505	--	3/		GC, A		
S-	UV Sterilizer	HYCO/5300	10247	4/		GC,		Not yet installed.
S-	UV Sterilizer	HYCO/5300	10245	4/		GC,		Not yet installed.
S-	UV Sterilizer	HYCO/5300	10246	4/		GC,		Not yet installed.
S-	Defibrillator	Cardiofax/DMS6003	1498	1/		GC, A		
	{KTU}							
S-	Bedside Monitor	HP/78352C	3418G11822	3/BF		GC,		Not yet installed.
	{Station}							
G-	Anaesthesia Apparatus	ACOMA/PH-3F	14846	1/	1987/88	GC,	¥1,697,000	
G-	Anaesthesia Apparatus	ACOMA/PH-3F	14847	1/	1987/88	GC,	¥1,697,000	
G-	Oximeter	Omada/BIOX-III	1465	3/	1987/88	GC,	¥1,175,000	
G-	CO2 Monitor	ACOMA/AS-25	141	3/	1987/88	WC,	¥207,000	Awaiting for spare parts.
G-	Ventilator	Ohmeda/MS-2000	--	1/	1987/88	GC,		
G-	Ventilator	Ohmeda/MS-2000	--	1/	1987/88	GC,		
G-	Pulmonary Function Sys.	CHEST/Chestac-25	--		1987/88	WC,	¥7,015,000	Awaiting for consumable parts.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Cardiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	(TMT Lab.)							
G-	ECG	N. KOHDEN/ECG-8340K	00294	3/BF	1987/88	GC,		
G-	3ch ECG	N. KOHDEN/ECG-7503	00043	3/BF	1987/88	GC,	¥854,000	
G-	3ch ECG	N. KOHDEN/ECG-6353	--	3/BF	1987/88	NC,	¥521,000	
G-	Holler Monitoring ECG	N. KOHDEN/DNC-3110K	00017	3/	1987/88	NW,	¥8,732,000	
S-	Mediac Holler System	MEDLEC/--	--	3/		GC,		
G-	Treadmill	N. KOHDEN/STS-7500A	00036	4/	1987/88	GC,	¥8,744,000	
G-	NIBP	N. KOHDEN/MPV-7201	01537	3/	1987/88	GC,	¥425,000	07/1996, repaired by BMED.
G-	NIBP	N. KOHDEN/MPV-7201	--	3/	1987/88	GC,	¥425,000	10/1996, repaired by BMED.
G-	NIBP	N. KOHDEN/MPV-7201	--	3/	1987/88	GC,	¥425,000	11/1996, repaired by BMED.
S-	Colour Doppler	ATL/--	X-3586	3/		GC,		
S-	Colour Doppler	HP/SONOS-100	2850G01497	3/		GC,		
	(N. I. Lab.)							
G-	Defibrillator	N. KOHDEN/TEC-5200B	21380	1/CF	1987/88	NW,	¥1,230,000	Spare parts unavailable.
G-	Defibrillator	N. KOHDEN/TEC-5200B	21375	1/CF	1987/88	NW,	¥1,230,000	Spare parts unavailable.
G-	Defibrillator	N. KOHDEN/TEC-5200B	21373	1/CF	1987/88	NW,	¥1,230,000	Spare parts unavailable.
	(Cardiac Catheterization Lab.)							
G-	BP Cine Angio with DSA	SHIMADZU/DAR-1200	--	1/	1988/89	GC, A	¥176,700,000	Injector defective.
G-	Patient Monitor	N. KOHDEN/OMP-8108K	00070	3/BF	1987/88	GC, A	¥1,460,000	
G-	Recorder	N. KOHDEN/WT811PA	--		1987/88	GC, A	¥416,000	
G-	Patient Monitor	N. KOHDEN/OMP-8108K	00067	3/BF	1987/88	GC, A	¥1,460,000	
G-	Recorder	N. KOHDEN/WT811PA	--		1987/88	GC, A	¥416,000	
G-	3ch ECG	N. KOHDEN/ECG-6353	000649	3/BF	1987/88	GC, A	¥521,000	
G-	3ch ECG	N. KOHDEN/ECG-7103	00042	3/BF	1987/88	GC, A		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Cardiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[MICU]							
G-	Defibrillator	N. KOHDEN/TEC-5200B	21379	1/CF	1987/88	NW,	¥1,230,000	Spare parts unavailable.
G-	Defibrillator	N. KOHDEN/TEC-5200B	21372	1/CF	1987/88	NW,	¥1,230,000	Spare parts unavailable.
G-	3ch ECG	N. KOHDEN/ECG-6353	000643	3/BF	1987/88	NW,	¥521,000	Roller not moving.
G-	3ch ECG	N. KOHDEN/ECG-6353	00645	3/BF	1987/88	WC,	¥521,000	Filter not functioned.
G-	Colour Doppler	TOSHIBA/SSH-65A	D7572650	3/	1988/89	WC, A	¥29,920,000	Gain switch defective.
S-	Dinamap	Meditronic/40	033173			NW,		
G-	C-Arm Image Intensifier	SHAMDZU/MHA-10B	6152758		1987/88	GC, A	¥3,400,000	
G-	Mobile X-ray Equipment	SHIMADZU/MC125L-30	0162318502		1987/88	GC, A	¥2,800,000	
G-	Bedpan Washer Sterilizer	SANKO/SS-8	--		1987/88	GC,	¥473,000	Not installed.
G-	Patient Monitor	N. KOHDEN/OMP-7203K	20396	3/BF	1987/88	WC, A	¥1,847,000	12/1996, examined by BMED.
G-	Recorder	N. KOHDEN/WT-722RJ	--		1987/88	GC, B	¥551,000	Battery needed.
G-	Patient Monitor	N. KOHDEN/OMP-7203K	20398	3/BF	1987/88	NW, A	¥1,847,000	12/1996, examined by BMED.
G-	Recorder	N. KOHDEN/WT-722RJ	--		1987/88	GC, B	¥551,000	Switch defective.
G-	Patient Monitor	N. KOHDEN/OMP-7203K	20700	3/BF	1987/88	GC, A	¥1,847,000	12/1996, examined by BMED.
G-	Recorder	N. KOHDEN/WT-722RJ	--		1987/88	GC, B	¥551,000	
G-	Patient Monitor	N. KOHDEN/OMP-7203K	20397	3/BF	1987/88	WC, A	¥1,847,000	12/1996, examined by BMED.
G-	Recorder	N. KOHDEN/WT-722RJ	--		1987/88	GC, B	¥551,000	Battery needed.
G-	Patient Monitor	N. KOHDEN/OMP-7203K	20399	3/BF	1987/88	WC, A	¥1,847,000	12/1996, examined by BMED.
G-	Recorder	N. KOHDEN/WT-722RJ	--		1987/88	GC, B	¥551,000	Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21689	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21691	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21693	3/BF	1987/88	GC, A	¥1,969,000	01/97, examined by BMED.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21697	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21695	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21692	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21702	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21688	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21703	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Cardiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21694	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21700	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21696	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Bedside Monitor	N. KOHDEN/OMP-7201K	21701	3/BF	1987/88	WC, A	¥1,969,000	01/97, examined. Battery needed.
G-	Central Monitor	N. KOHDEN/OGP-7101	20575	3/	1987/88	NW,	¥3,927,000	
G-	Recorder	N. KOHDEN/WT722RJ	--		1987/88	GC,	¥484,000	
G-	Video Printer	N. KOHDEN/WP-711R	--		1987/88	GC,	¥785,000	
G-	Central Monitor	N. KOHDEN/OGP-7101	20576	3/	1987/88	NW,	¥3,927,000	
G-	Recorder	N. KOHDEN/WT722RJ	--		1987/88	GC,	¥484,000	
G-	Video Printer	N. KOHDEN/WP-711R	--		1987/88	GC,	¥785,000	
G-	Central Monitor	N. KOHDEN/OGP-7101	--	3/	1987/88	NW,	¥3,927,000	
G-	Recorder	N. KOHDEN/WT722RJ	--		1987/88	GC,	¥484,000	
G-	Video Printer	N. KOHDEN/WP-711R	--		1987/88	GC,	¥785,000	
G-	Central Monitor	N. KOHDEN/OGP-7101	--	3/	1987/88	NW,	¥3,927,000	
G-	Recorder	N. KOHDEN/WT722RJ	--		1987/88	GC,	¥484,000	
G-	Video Printer	N. KOHDEN/WP-711R	--		1987/88	GC,	¥785,000	
G-	Cardiac Telemetry System	N. KOHDEN/WEP-7604	00217		1988/89	GC, A	¥3,430,000	03/97, examined. Battery needed.
G-	1ch Recorder	N. KOHDEN/WT-711RJ	--		1988/89	GC,	¥460,000	
G-	Arrythmia Monitor	N. KOHDEN/OCC-7101K	20108		1987/88	NW,	¥10,457,000	
G-	Arrythmia Monitor	N. KOHDEN/OCC-7101K	20109		1987/88	NW,	¥10,457,000	
G-	NIBP	N. KOHDEN/MVP-7201	01542	3/BF	1987/88	WC, A	¥425,000	03/97, examined. Battery needed.
G-	NIBP	N. KOHDEN/MPV-7201	01539	3/BF	1987/88	GC, A	¥425,000	03/97, examined. Battery needed.
G-	NIBP	N. KOHDEN/MPV-7201	01535	3/BF	1987/88	GC,	¥425,000	01/1997, examined by BMED.
G-	NIBP	N. KOHDEN/MPV-7201	01536	3/BF	1987/88	GC,	¥425,000	12/1996, examined by BMED.
G-	Syringe Pump	ATOM/235	8063469	1/	1987/88	NW,	¥750,000	
G-	3ch ECG	N. KOHDEN/ECG-6353	061082	3/BF	1987/88	GC,	¥521,000	
G-	EH Blood Flow Meter	N. KOHDEN/MPV-2100	--	3/BF	1987/88	GC,	¥1,203,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: CSSD

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Needle Washer	SAKURA/NW-50	4005592		1987/88	GC, A	¥228,000	
G-	Needle Washer	SAKURA/NW-50	4005593		1987/88	GC, A	¥228,000	
G-	Tube Washer	SAKURA/TW-10	7718		1987/88	GC, A	¥916,000	
G-	Tube Washer	SAKURA/TW-10	7719		1987/88	GC, A	¥916,000	
G-	Ultrasonic Cleaner	AIWA/AC-600W	--		1987/88	GC,	¥1,709,000	
G-	Ultrasonic Cleaner	AIWA/AC-600W	--		1987/88	GC,	¥1,709,000	
G-	Steam Sterilizer	SAKURA/FOA18S2PC	16585		1987/88	GC, A	¥6,661,000	
G-	Steam Sterilizer	SAKURA/FOA18S2PC	16546		1987/88	GC, A	¥6,661,000	
G-	Steam Sterilizer	SAKURA/FBA4S2PC	16430		1987/88	GC, A	¥4,896,000	
G-	Steam Sterilizer	SAKURA/FBA4S2PC	16431		1987/88	GC, A	¥4,896,000	
G-	S. Grove Conditioner	SAKURA/G-45DP	470627		1987/88	GC, A	¥916,000	
G-	Table-top Autoclave	SANYO/HAC-1200	00248		1987/88	GC, A	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00236		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00237		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00239		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00240		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00241		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00244		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00247		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/HAC/1200	00257		1987/88	GC,	¥152,000	

20-0-0-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: C. V. T. S.

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	(O. T.)							
G-	Operating Table	MIZUHO/MOT-5500	80576164	4/	1987/88	GC, A	₹2,411,000	
G-	Operating Table	MIZUHO/MOT-5500	80576163	4/	1987/88	GC, A	₹2,411,000	
G-	Operating Table	MIZUHO/MOT-5500	80576165	4/	1987/88	GC, A	₹2,411,000	
G-	Operating Light	DAIKYO/9030JHS	62A115	4/	1987/88	GC, A	₹1,598,000	04/1996, repaired by BMED.
G-	Operating Light	DAIKYO/9010JHS	62A111	4/	1987/88	GC, A	₹1,911,000	04/1996, repaired by BMED.
G-	Operating Light	DAIKYO/9010JHS	62A112	4/	1987/88	GC, A	₹1,911,000	
G-	Defibrillator	N. KOHDEN/TEC-5200B	21370	1/CF	1987/88	NW,	₹1,230,000	Spare parts unavailable.
G-	Anaesthesia Apparatus	ACOMA/KMA-1300FU	1265	1/	1987/88	GC, A	₹4,731,000	
G-	Incubator	SANYO/MIR-260	8070954		1988/89	GC, A	₹200,000	
G-	NIBP	N. KOHDEN/MPV-7201	015336BA	3/BF	1987/88	GC, A	₹425,000	07/1996, repaired by BMED.
G-	Ice Making Machine	SANYO/SIM-F161	700013		1987/88	GC, A	₹761,000	
G-	Blood Flow Meter	N. KOHDEN/MFD-2200	20336		1987/88	GC, A	₹1,200,000	
G-	Electrosurgical Unit	ACOMA/ACUTOR-S	3299	3/	1987/88	GC, A	₹1,414,000	
G-	Suction Unit	ASAHI/700	M826	3/	1988/89	GC, A	₹183,000	01/1997, repaired by BMED.
G-	Suction Unit	ASAHI/700	M827	3/	1988/89	GC, A	₹183,000	01/1997, repaired by BMED.
G-	Hyper/Hypothermia Appts.	AIKA/700	T3235	3/	1987/88	GC, A	₹2,747,000	
	(Ward)							
G-	Suction Unit	ASAHI/700	M830	3/	1988/89	GC, A	₹183,000	
G-	Bedpan Sanitizer	SANKU/SS-8	--		1987/88	GC, A	₹473,000	Not installed.
G-	Defibrillator	N. KOHDEN/TEC-5200B	21372	1/CF	1987/88	NW, A	₹1,230,000	Spare parts unavailable.
G-	3ch ECG	N. KOHDEN/ECG-6353	00646	3/BF	1987/88	GC, A	₹521,000	
G-	3ch ECG	N. KOHDEN/ECG-6353	--	3/BF	1987/88	GC, A	₹521,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Endocrine Medicine

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Eliza Apparatus	ORIENTAL/ETY-96	870677		1987/88	GC,	¥5,370,000	05/1997, repaired by BMED.
G-	Cell Washer	BIOTEC/HW-69SD	20701		1987/88	GC,		
G-	Water Bath	YAMATO/BT-31	221025		1987/88	GC,		
G-	Automatic Dilutor	NICHIRYO/MILUTOR	--		1987/88	GC,	¥1,169,000	
G-	Electronic Balance	A&D/ER-182A	4701004		1987/88	GC,	¥330,000	
G-	Refrigerated Centrifuge	HITACHI/SCR-7BA	87087		1987/88	GC,	¥3,148,000	
G-	Fume Hood	YAMATO/HS-70	233020		1987/88	GC,	¥376,000	
G-	Water Still	YAMATO/WG-75	227002		1987/88	NW,	¥1,291,000	
G-	Water Purification Sys.	YAMATO/WL-21	228007		1987/88	NW,	¥723,000	
[Room No.102]								
G-	Liquid Chromatograph	SHIMADU/LC-6A	85119-LB		1988/89	GC,	¥3,150,000	
G-	Data Processor	SHIMADZU/CR-4AD	--		1988/89	GC,	¥1,100,000	
G-	Liquid Chromatograph	SHIMADU/LC-7A	85108-LD		1988/89	GC,	¥8,744,000	
G-	Data Processor	SHIMADZU/CR-4A	85836-LP		1988/89	GC,	¥700,000	
G-	Ultra Low Deep Freezer	SANYO/MDF-381AT	7080833		1988/89	GC, A	¥1,600,000	
G-	Ultra Low Deep Freezer	SANYO/MDF-381AT	8070975		1988/89	GC, A	¥1,600,000	
G-	Centrifuge	KUBOTA/KR-1500	M80377		1988/89	GC,	¥346,000	
[Room No.202, Research Lab.]								
G-	Glucose Analyzer	ERMA/GLU-1	C94011E		1987/88	WC, C	¥1,498,000	Lack of reagents.
G-	Fluorescent Microscope	OLYMPUS/BHS-312	817443		1987/88	GC,	¥2,287,000	
G-	Titration Analyzer	HIRAYAMA/COM-7SMP	52886-1		1988/89	GC,	¥1,500,000	
B-	Ger Dryer	BIORAD/543	185BR3008			GC, A		
[Room No.203]								
G-	UV Spectrophotometer	SHIMADZU/UV-265	125342		1987/88	NW,	¥2,719,000	Awaiting for spare parts.
G-	pH Meter	HORIBA/F-8	706018		1987/88	GC,	¥200,000	
G-	Electrophoresis	LKB/2197	10042		1987/88	GC,	¥1,223,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Endocrine Medicine

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Heating Block	YAMATO/HF-61	--		1987/88	GC,	¥120,000	
G-	U.Tissue Processor	BRANSON/450	8180137		1988/89	GC,	¥750,000	
G-	Vacuum Oven	YAMATO/DP-61	246036R		1988/89	GC,	¥1,100,000	
G-	Medical Refrigerator	SANYO/MPR-1010R	8070958		1988/89	GC, A	¥720,000	
G-	Tissue Culture Incubator	SANYO/MIR-260	8070796		1988/89	GC, A	¥200,000	
G-	Refrigerated Centrifuge	HITACHI/SCR-20BA	77689		1987/88	GC, A	¥1,590,000	
	[Room No.204, Counter Room]							
G-	Metaboloc Shaker	YAMATO/SA-31	228081		1987/88	GC, A	¥250,000	
G-	β Scintillation Counter	LKB/1219-802	190583		1988/89	GC, A	¥14,664,000	
S-	γ Counter,	RAYTEST/GAMMAC	48054			GC, A		
G-	Water Bath	YAMATO/BT-47	228011		1987/88	GC, A	¥537,000	
G-	Water Bath	YAMATO/BT-47	228016		1987/88	GC, A	¥537,000	12/1996, repaired by BMED.
G-	Water Bath	YAMATO/BT-71	220008		1987/88	NW,		
G-	Thermo Bath	SHIMADZU/TB-85	3147		1987/88	GC, A		
G-	CO2 Incubator	SANYO/MCO-235T	7080825		1987/88	GC, A		
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC, A	¥65,000	
S-	Electrophoresis	BIORAD/200	06147			GC, A		
S-	Electrophoresis	BRL/250	46556			GC, A		
G-	Refrigerated Centrifuge	HITACHI/SCP-85H	80338		1987/88	GC, A		
G-	Sterilizing Unit	HITACHI/SU-5	88007		1987/88	GC, C		
S-	Orbital Shaking Incubator	REMI/--	--			GC,		05/1997, repaired by BMED.
S-	Spectrophotometer	Ele. Corp. India/GS-5703AT				GC, A		05/1997, repaired by BMED.
G-	Electronic Balance	A&D/FX-320	5100681		1987/88	GC, A	¥168,000	
S-	Touch Mixer	USA Sc./Vollux-2	11407			GC, A		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Endocrine Medicine

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	{Room No. 205}							
G-	Ultrasonic Pipette Washer	AIWA/AV-100CR	80311		1988/89	GC, A	¥276,000	
G-	Ice Making Machine	SANYO/SIM-F161	700065		1987/88	NW,	¥761,000	Awaiting for spare parts.
G-	Table-Top Autoclave	SANYO/MAC-1200	000254		1987/88	GC,	¥152,000	
G-	Ophthalmoscope	Leitz/BX-RP	--		1987/88	GC,	¥63,000	

43-0-7-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Endocrine Surgery

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Laboratory]							
T-	Operation Microscope	OLYMPUS/OME-NC2	--		1996	GC, A	₹1,600,000	
T-	TV Monitor	JVC/TM20PSN	06643266		1996	GC, B	₹1,440,000	
T-	Video Projector	JVC/VXD-1050S	03556531		1996	GC, B		
T-	Video Tape Recorder	JVC/HR-J97MS	09933453		1996	GC, B		
T-	Ultrasonic Scanner	TOSHIBA/SAL-32B	5624890		1996	GC, A	₹6,760,000	
T-	Thermal Printer	TOSHIBA/TP-8700	--		1996	GC, A		
	[Operation Theatre]							
G-	Incubator	SANYO/MIR-260	8070971		1988/89	GC,	₹200,000	
G-	Operating Table	HIZUHO/SPL-330N	80772307	4/	1987/88	GC,	₹1,218,000	
G-	Anaesthesia Apparatus	ACOMA/PH-3F	14844	1/	1987/88	GC,	₹1,697,000	
G-	Operating Light	DAIKYO/9030JHS	62A114	4/	1987/88	GC,	₹1,598,000	08/1996, repaired by BMED.
G-	Suction Unit	ASAHI/700	M838	3/	1987/88	GC,	₹183,000	01/1997, repaired by BMED.
T-	Personal Vascular	IMEXLAB/8000PVL	--		1996	GC,	₹1,800,000	
T-	Retractor System	OMNI-TRACT/#4004	--		1996	GC,	₹2,090,000	
	[Ward]							
G-	Suction Unit	ASAHI/700	M823	3/	1989	GC,	₹183,000	01/1997, repaired by BMED.
G-	3ch ECG	N. KOHDEN/ECG-6353	063083A0	3/BF	1989	GC,	₹521,000	
G-	Syringe Infusion Pump	ATOM/235	8063470	1/	1989	GC,	₹750,000	

8-5-0-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Gastroenterology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Gastro Lab.]							
G-	Fume Hood	YAMATO/MS-70	233019		1987/88	GC,	₹376,000	
G-	Shaker	YAMATO/SA-31	228051		1987/88	GC,	₹387,000	
G-	Magnetic Mixer	YAMATO/CTE-24A	2110330		1987/88	GC,		
G-	Electronic Balance	A&D/FX-320	5101039		1987/88	GC,	₹168,000	
G-	Electronic Balance	A&D/FX-320	5101536		1987/88	GC,	₹168,000	
G-	Electronic Balance	A&D/FX-320	5101077		1987/88	GC,	₹168,000	
G-	Electronic Balance	A&D/FX-320	4701002		1987/88	GC,	₹168,000	
G-	Spectrophotometer	SHIMADZU/UV-265	126495		1987/88	GC, A	₹2,700,000	03/1997, repaired by BMED.
G-	Magnetic Mixer	YAMATO/MD-21	232		1987/88	GC, A	₹51,000	
G-	Micro Tube Mixer	TONY/MT-300	30008		1987/88	GC, A		
G-	Magnetic Mixer	YAMATO/MH-81	230		1987/88	GC,	₹570,000	
G-	Stirrer	YAMATO/LR-41C	227		1987/88	GC,	₹183,000	
G-	Stirrer	YAMATO/LR-41C	227		1987/88	GC,	₹183,000	
G-	Ultra Low Deep Freezer	SANYO/MDF-381AT	8070983		1987/88	GC, A	₹1,600,000	
G-	Deep Freezer	SANYO/MDF-440	4701002		1988/89	GC, A	₹531,000	
G-	Microscope	OLYMPUS/BHT-111	230334		1987/88	GC, A	₹450,000	
	[Endoscopy Lab.]							
G-	Electrosurgical Unit	OLYMPUS/UES-10	3600729	1/	1987/88	GC,	₹1,125,000	
G-	Suction Machine	ASAHI/700	M839	3/	1988/89	GC,	₹183,000	01/1997, repaired by BMED.
G-	Suction Machine	ASAHI/700	M835	3/	1988/89	GC,	₹183,000	01/1997, repaired by BMED.
G-	Suction Machine	ASAHI/700	M820	3/	1988/89	GC,	₹183,000	03/1997, repaired by BMED.
G-	Endoscope Suction Unit	OLYMPUS/KV-2	--		1987/88	GC,	₹281,000	
G-	Endoscopic Suction Unit	OLYMPUS/KV-2	1700103		1987/88	GC,	₹281,000	
G-	Endoscope Washer	OLYMPUS/EW-20	--		1987/88	GC,		
G-	Light Source for Endoscope	OLYMPUS/CLV-U20	7387596		1987/88	GC,		02/1997, repaired by BMED.
G-	Upper Gastro. Fiberscopes	OLYMPUS/GIF-FQ-20	2801927		1987/88	GC,		
G-	Light Source for Endoscope	OLYMPUS/CLE-F10	7743616		1987/88	GC,	₹750,000	01/1997, repaired by BMED.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Gastroenterology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Video Endoscope	OLYMPUS/CV-1	--		1987/88	GC,		
G-	Paediatric Endoscope	OLYMPUS/GIFX-P10	--		1987/88	NW,	₹1,294,000	
G-	Large Channel Endoscope	OLYMPUS/GIF-IT10	--		1987/88	GC,	₹1,461,000	
G-	Medium Size Light Source	OLYMPUS/CLE-10	7736474		1987/88	GC,	₹375,000	
G-	Duodano Fiberscope	OLYMPUS/JF-IT10	--		1987/88	NW,	₹1,799,000	
G-	Duodano Fiberscope	OLYMPUS/TJF-10	1721037		1987/88	NW,	₹1,683,000	
G-	Endoscopic Ultrasound Sys.	OLYMPUS/EU-M3	8UC0900		1987/88	GC,		
G-	Colono Fiberscope	OLYMPUS/CF-IT10L	2722578		1987/88	GC,	₹1,904,000	
G-	Colono Fiberscope	OLYMPUS/CF-101	--		1987/88	NW,	₹1,575,000	
G-	Colono Fiberscope	OLYMPUS/CF-10M	2650567		1987/88	GC,	₹1,388,000	
G-	Paediatric Colonoscope	OLYMPUS/PCF-10	--		1987/88	GC,	₹992,000	
G-	Lecture Scope	OLYMPUS/LS-10	713341		1987/88	GC,	₹871,000	
G-	Lecture Scope	OLYMPUS/LS-R	--		1987/88	GC,		
G-	Choradacho Fiberscope	OLYMPUS/CHF-10	--		1987/88	GC,		
G-	Ultrasonic Cleaner	OLYMPUS/KS-1	J710162		1987/88	NW,		
G-	Upper G.I. Fiberscope	OLYMPUS/QIF-Q10	2728305		1987/88	GC,		
G-	Proctoscope	OLYMPUS/03984	03954		1987/88	GC,		
G-	Proctoscope	OLYMPUS/03984	A3904		1987/88	GC,	₹232,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Clinical Immunology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
[Room No.104 - Immunology Lab.-1]								
G-	Incubator	SANYO/MIR-260	8070953		1987/88	GC, A	₹200,000	
G-	pH Meter	HORIBA/F-8	706004		1987/88	GC, A	₹200,000	
G-	Microscope	OLYMPUS/BH2	003872		1987/88	GC, A	₹368,000	
G-	Magnetic Mixer	YAMATO/MH-81	230		1987/88	GC, A	₹570,000	
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC, A	₹65,000	
S-	Safety Cabinet	KIROSKAR/ELECTRODYNE	--			GC, A		
S-	Phase Contrast Microscope	Leitz/LaboverLFB	520619-081823			GC, A		
[Room No.105 - Immunology Lab.-2]								
G-	Refrigerator	SANYO/MPR-510R	7080042		1987/88	GC, A	₹286,000	
G-	Centrifuge	HITACHI/SCR-7BA	87088		1988/89	GC, A	₹3,148,000	Under AMC.
G-	CO2 Incubator	SANYO/MCO-325T	7082800		1987/88	GC, A	₹2,100,000	
G-	Microscope	OLYMPUS/BH2	230343		1987/88	GC, A	₹368,000	
G-	Phasecontrast Microscope	OLYMPUS/INT-2	801049		1987/88	GC, A	₹1,833,000	
G-	LSC Homogenizer	YAMATO/LH-21	218011		1987/88	GC, A	₹309,000	
G-	Centrifuge	KUBOTA/KS-8000	150372		1987/88	GC, A	₹797,000	
G-	pH Meter	HORIBA/F-8AT	606024		1987/88	GC, A	₹421,000	
G-	Electric Balance	A&D/ER-182A	4700997		1987/88	GC, A	₹300,000	
G-	Electric Balance	A&D/FX-3200	5301361		1987/88	GC, A	₹168,000	
G-	Electrophoresis	LKB/2197	--		1987/88	GC, A	₹1,223,000	
G-	Electrophoresis	LKB/HELTRAC	--		1987/88	GC, A		
G-	Transphor Unit	LKB/2005	--		1987/88	GC, A	₹148,000	
G-	Water Bath	EYELA/SB-24	5B-24		1987/88	GC, A		
G-	Deep Freezer	SANYO/MDF-440	8071002		1987/88	GC, A	₹530,000	
G-	Deep Freezer	SANYO/MDF-381AT	8070984		1988/89	GC, A	₹1,600,000	
S-	Refrigerated Centrifuge	DUPONT/Technospin-R	--			GC, A		
S-	Safety Cabinet	KIROSKAR/ELECTRODYNE	--			GC, A		
S-	Safety Cabinet	KIROSKAR/ELECTRODYNE	--			GC, A		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Clinical Immunology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Mag Mixer	Yamato/MD-41	--		1987/88	GC, A	¥63,000	
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC, A	¥65,000	
G-	Magnetic Mixer	YAMATO/MD-21	232		1987/88	GC, A	¥51,000	
G-	Centrifuge	KUBOTA/KA-2200	M51578		1988/89	GC, A	¥160,000	
G-	Alphplot Recorder	LKB/2240	3160		1987/88	GC, A		
G-	Slab Gel Dryer	LKB/2003	--		1987/88	GC, A	¥177,000	
G-	Integrator	LKB-2221	097-26151		1987/88	GC, A		
G-	Liquid Chromatograph	SHIMADZU/LC-7A	80291MG		1988/89	GC, A	¥8,744,000	
G-	Shaker	YAMATO/SH-31	--		1987/88	GC, A	¥387,000	
S-	Water Bath	HAKKE/KT-2	--			GC, A		
	[Room No.106 - Instrument Room]							
G-	Spectrophotometer	HITACHI/150-20	6241004		1987/88	GC, A	¥2,120,000	
G-	Spectrophotometer for CC	HITACHI/F-3000	6222-015		1987/88	GC, A	¥3,060,000	
G-	Gamma Counter	LKB/1282-801	610262		1988/89	GC, A	¥7,500,000	
S-	Cell Washer	DUPONT/	8801116			GC		
G-	Colony Analyzer	TOYO/CA-9F	011020		1988/89	WC, C	¥10,390,000	Software missing.
G-	HS Refrig. Centrifuge	HITACHI/CR20B2	98248		1988/89	GC, A	¥2,706,000	
S-	γ / β Counter	Raytest/	--			GC,		
S-	γ / β Counter	Raytest/	--			GC,		
	[Room No.107 - Facs Room]							
S-	Refrigerated Centrifuge	DUPONT/Technospin-R	--			GC, A		
S-	Flow Cycle Meter	Coulter/FX753	48383X4829			NH,		
	[Room No.108]							
G-	Ultra Low Deep Freezer	SANYO/MDF-381AT	8078982		1988/89	GC, A	¥1,600,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Clinical Immunology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
[Room No.109 -- Washing Room]								
G-	Laboratory Washer	YAMATO/AW-52	225504		1987/88	NH,	¥2,056,000	Awaiting for spare parts.
G-	Fume Hood	YAMATO/MS-70	233025		1987/88	GC, A	¥347,000	
G-	Drying Sterilizer	YAMATO/SH-52	233031		1987/88	GC, A	¥185,000	
G-	Sterilizer	SANYO/MAC-1200	000251		1987/88	GC, A	¥152,000	
S-	Incubator	HAMO/LS-850	--			GC, A		
G-	Pure Line	YAMATO/WL-21P	228008		1987/88	WC,	¥723,000	
[Room No.110 -- Photography]								
G-	Image Processor	FUJIMOTO/CP-303H	80831126		1987/88	GC, C		English manual required.
G-	Air Dryer	KING/900	--		1987/88	GC, C		Not used due to above.
G-	Colour Enlarizer	LPL/C-6700	--		1987/88	GC, C		
G-	Fotodina	Polaroid/	--		1987/88	GC, C		
[Room No.205 -- Auto Antibody Lab.]								
S-	Microtome Knife Sharpner	Reichel-Jung/	073498			GC, A		
G-	Incubator	SANYO/MIR-251	7080851		1987/88	GC, A	¥407,000	
G-	Routine Microscopes	OLYMPUS/AH-2	702030		1987/88	GC, A		
S-	Sample Dilutor	TECAN/RSP-505	--			GC, A		
G-	pH Meter	HORIBA/F-8	706003		1987/88	GC, A	¥200,000	
S-	Eliza Reader	TiterLak/	MCC/340			GC, A		
G-	Refract Meter	ATAGO/3T	--		1987/88	GC, A	¥285,000	
S-	Behring Turbitimer	EEHRING/	295790			GC, A		
G-	Mag Mixer	YAMATO/MD-21	232		1987/88	GC, A	¥51,000	
G-	Electrophoresis	LKB/2301	1669		1987/88	GC, A	¥165,000	
G-	Electrophoresis	LKB/2301	1725		1987/88	GC, A	¥165,000	
S-	Water Bath	HAKKE/KT2	--			GC, A		
G-	Incubator	SANYO/MIR-260	--		1987/88	GC, A	¥200,000	
G-	Centrifuge	KUBATA/KS-8000	L30343		1987/88	GC, A	¥631,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Clinical Immunology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Microwave Oven	SANYO/EN2426A	3247200671		1988/89	GC, A	¥98,000	
G-	Cyto Centrifuge	SAKURA/CF-12D	4807160		1988/89	GC, A	¥495,000	
G-	Deep Freezer	SANYO/MDF-440	8070992		1988/89	GC, A	¥530,000	
G-	Electric Balance	A&D/FX-3200	5301357		1987/88	GC, A	¥168,000	
G-	Shaker	KAYAGAKI/KR-3N	29572		1987/88	GC, A	¥146,000	
G-	Peristal Pump	LKB/2115	3126		1988/89	GC, A		
	(Room No. 206 - Cellular & Molecular Immunology)							
G-	pH Meter	HORIBA/F-8	706019		1987/88	GC, A	¥200,000	
G-	Electronic Balance	A&D/FX-320	5101037		1987/88	GC, A	¥168,000	
G-	Electrophoresis	LKB/1251	510539		1987/88	GC, A		
G-	Deep Freezer	SANYO/MDF-440	8071005		1988/89	GC, A	¥530,000	
G-	Spectrophotometer	HITACHI/U-3200	6216-036		1987/88	GC, A	¥2,759,000	
G-	Mag Mixer	YAMATO/MH-81	230		1987/88	GC, A		
G-	Ultra Centrifuge	BECKMAN/TL-100	346458		1988/89	GC, A	¥11,450,000	
G-	Ultra Low Deep Freezer	SANYO/MDF-381AT	8070979		1988/89	GC, A	¥1,600,000	
G-	Magnetic Mixer	YAMATO/MD-21	232		1987/88	GC, A	¥51,000	
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC, A	¥63,000	
G-	Water Bath	YAMATO/BT-47	223013		1987/88	GC, A	¥537,000	
G-	Refrigerated Centrifuge	HITACHI/SCR-20BA	77680		1987/88	GC, A		Under AMC.
G-	Hematocrit Centrifuge	KUBATO/KH-1200S	L70400		1987/88	GC, A	¥229,000	
S-	Gyrotory Shaker	NBS/G2	--			GC, A		
G-	Refrigerator	SANYO/MPR-510R	7080844		1987/88	GC, A	¥286,000	
G-	Centrifuge	KUBOTA/KA-2200	M51579		1987/88	GC, A	¥160,000	
G-	Centrifuge	HITACHI/SCR7BA	98105		1988/89	GC, A	¥2,685,000	Under AMC.
G-	CO2 Incubator	SANYO/HCO-325T	7080823		1987/88	GC, A	¥2,100,000	
S-	Safety Cabinet	KIROSKAR/ELECTRODYNE	--			GC, A		
S-	Safety Cabinet	KIROSKAR/ELECTRODYNE	--			GC, A		
S-	Centrifuge	DUPONT/Technoapin-R	--			GC, A		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Clinical Immunology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Inverted Microscope	OLYMPUS/IM-2	861204		1987/88	GC, A		
	[Room No. 207 - Lab. 5]							
G-	Drying Sterilizer	YAMATO/SH-52	233034		1987/88	GC, A	¥165,000	
G-	Centrifuge	KUBOTA/KS-8000	L30340		1987/88	GC, A	¥631,000	
S-	Water Bath	TEMPO/	37			GC, A		
G-	Electric Balance	A&D/FX-3200	5701358		1987/88	GC, A	¥168,000	
G-	pH Meter	HORIBA/F-8	706014		1987/88	GC, A		
G-	Shaker	KAYAGAKI/KR-3N	29572		1987/88	GC, A		
G-	Centrifuge	KUBOTA/KA-2200	M51582		1987/88	GC, A		
G-	Incubator	HOMO/LS-850	--			GC, A		
S-	Safety Cabinet	KIROSKAR/ELECTRODYNE	--			GC, A		
	[Immunology Lab.]							
G-	Autoclave	YAMATO/SW-51	1421537		1987/88	GC, A		
S-	Water Purification System	Hillipore/Hill-RO-120	--			GC, A		
G-	Ultrasonic Cleaner	SAKURA/US-5E	4704701		1987/88	GC, C		
G-	Drying Sterilizer	YAMATO/SH-62	233026		1987/88	GC, A		
G-	Deep Freezer	SANYO/MDF-440	8070991		1988/89	GC, A	¥530,000	
G-	Deep Freezer	SANYO/MDF-440	--		1988/89	GC, A	¥530,000	
G-	Deep Freezer	SANYO/MDF-440	8070996		1988/89	GC, A	¥530,000	
G-	Homogenizer	BRANSON/350	8860021A		1987/88	GC, A	¥649,000	03/1997, repaired by BMED.
G-	Micro Centrifuge	KUBOTA/KR-1500	L50291		1987/88	GC, A	¥346,000	
S-	Water Bath	TEMPO/	23			GC, A		
G-	Ultrasonic Pipette Washer	AIWA/AV-100CR	10332		1987/88	GC, A	¥276,000	
	[Room No. 209 - Hybridma Lab.]							
G-	Incubator	SANYO/MIR-260	--		1987/88	GC, A	¥200,000	
G-	CO2 Incubator	SANYO/MCO-325T	7080829		1987/88	GC, A	¥2,100,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Clinical Immunology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Centrifuge	HITACHI/SCR-7BA	87089		1987/88	GC, A	¥2,696,000	Under AMC.
S-	Safety Cabinet	KIROSKAR/ELECTRODYNE	--			GC, A		
G-	Somatic Hybridizer	SHIMADZU/SSH-1	731769253		1987/88	GC, A		
G-	Phasecontrast Microscope	OLYMPUS/IMT-2	8010048		1987/88	GC, A	¥1,833,000	
	[Room No.307]							
G-	Medical Refrigerator	SANYO/MPR-510	7080841		1987/88	GC, A	¥286,000	
G-	Deep Freezer	SANYO/MDF-440	--		1987/88	GC, A	¥530,000	
S-	Phase Contrast Microscope	Leltz/ARISTPIAN	--			GC, A		
G-	Ice Making Machine	SANYO/SIM-E61	700018		1987/88	GC, A	¥267,000	
G-	Ice Making Machine	SANYO/SIM-E61	--		1987/88	NM,	¥267,000	Awaiting for spare parts.
G-	Flaked Ice Maker	SANYO/SIM-F161	700066		1987/88	GC, A	¥761,000	
G-	104 Deep Freezer	SANYO/MDF-380AT	8070980		1988/89	GC, A		
G-	105 Incubator	SANYO/MIR-260	7080839		1987/88	GC, A	¥200,000	
G-	106 Microscope with TV Camera	OLYMPUS/BH2	--		1988/89	NM,	¥368,000	
G-	pH Meter	HORIBA/F-8	706030		1987/88	GC, A	¥200,000	
G-	108 Centrifuge	KUBOTA/KA-2200	M57585		1988/89	GC, A	¥160,000	
G-	Electrophoresis	LKB/2197	10028		1987/88	GC, A	¥1,223,000	
G-	Microscope	OLYMPUS/BH2	230329		1987/88	GC, A	¥368,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000265		1987/88	GC, C	¥152,000	
G-	Medical Refrigerator	SANYO/MPR-510	7080847		1987/88	GC, A	¥286,000	
G-	Research Microscope	OLYMPUS/BHS	229025		1988/89	GC, A	¥368,000	
G-	109 Water Still	YAMATO/WG-75	228008		1987/88	GC, A	¥1,291,000	
G-	205 Diff. leucocyte Counter	ERMA/01-950-0	3388		1987/88	GC, A	¥80,000	
G-	Diff. leucocyte Counter	ERMA/01-950-0	3395		1987/88	GC, A	¥80,000	

List of Equipment as of 1997
S.G.P.G.I., Lucknow

LOCATION: Clinical Immunology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Electrophoresis	JOOKOO/JA SET	613067		1987/88	GC, A	¥466,000	
G-	Densitometer	LKB/2217-200	--		1987/88	GC, A		
G-	Centrifuga	KUBOTA/KA-2200	M57582		1988/89	GC, A	¥160,000	
G- 206	Automatic Dilutor	NICHIRYO/MILUTOR	80205		1987/88	GC, A	¥1,200,000	
G-	Electrophoresis	LKB/1251	510935		1987/88	GC, A		
G-	Micro Tube Mixer	TOMY/MT-360	30007		1987/88	GC, A		
G-	Microscope	OLYMPUS/BH2	826768		1987/88	GC, A	¥368,000	
G-	Inverted Microscope	OLYMPUS/LH-50A	826768		1987/88	GC, A		
G- 207	Incubator	SANYO/HIR-251	7080853		1987/88	NW,	¥407,000	
G- 208	Ultra Low Deep Freezer	SANYO/MDF-381AT	8070981		1988/89	GC, A	¥1,600,000	
G-	Fraction Collector	LKB/2212	3160		1988/89	GC, A		
G- 302	Microscope	OLYMPUS/BH2	--		1987/88	GC, A	¥368,000	
G-	Microscope	OLYMPUS/BH2	--		1987/88	GC, A	¥368,000	
G-	Medical Refrigerator	SANYO/MPR-510R	--		1987/88	GC, A	¥286,000	

142-0-25-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Medical Genetics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
[Room No.106 - Molecular Myopathy Lab.]								
G-	Centrifuge	HITACHI/CR20B2	88225		1988/89	GC,	¥2,706,000	
G-	Electrophoresis	LKB/2301	1725		1987/88	GC, A	¥165,000	
G-	Electrophoresis	LKB/2197	10028		1987/88	GC,	¥1,223,000	
G-	pH Meter	HORIBA/F-8	708030		1987/88	GC, A	¥200,000	
G-	Electronic Balance	A&D/ER-182A	4700996		1987/88	GC, A	¥330,000	
G-	Electronic Balance	A&D/FX-3200	5301362		1987/88	GC, A	¥168,000	
G-	S Micro Centrifuge	KUBOTA/KA-2200	M57585		1987/88	GC, A	¥160,000	
S-	Dry Bath	GENEI/	--			GC, A		
G-	Homogenizer	NISSEI/AM-9	81039		1987/88	GC, A	¥485,000	
G-	Deep Freezer	SANYO/MDF-381AT	8070982		1987/88	GC, A	¥1,600,000	
G-	Refrigerator	SANYO/MIR-510	7080847		1987/88	GC, A	¥286,000	
G-	Spectrophotometer	HITACHI/150-20	40021		1987/88	GC, A	¥2,123,000	
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC, A	¥65,000	
G-	Table-top Autoclave	SANYO/MAC-1200	--		1987/88	GC, A	¥152,000	
S-	Water Bath	HAKKE/KT2	87936					
[Room No.207 -]								
G-	Drying Sterilizer	YAMATO/SH-62	--		1987/88	GC, A	¥185,000	
G-	Ultrasonic Cleaner	BRABSON/YAMATO/5200	--					
G-	Table-top Autoclave	SANYO/MAC-1200	000243		1987/88	GC, A	¥152,000	
G-	Ultrasonic Cleaner	SAKURA/US-5E	--		1987/88	GC,	¥117,000	
[Room No.208 -]								
G-	Deep Freezer	SANYO/MDF-440	8071003		1988/89	GC, A	¥530,000	
G-	Incubator	SANYO/MIR-551	7080838		1987/88	GC, A	¥709,000	
G-	Incubator	SANYO/MIR-551	7080837		1987/88	GC, A	¥709,000	
S-	Deep Freezer	Westinghouse/--	--			GC, A		
G-	Incubator	SANYO/MIR-251	7080852		1987/88	GC, A		
G-	Water Bath	EYELA/TP-100	1289		1987/88	GC, A	¥163,000	

List of Equipment as of 1997
S.G.P.G.I., Lucknow

LOCATION: Medical Genetics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Deep Freezer	SANYO/MDF-381AT	8070986		1988/89	GC,	¥1,600,000	
G-	Electronic Balance	A&D/ER-182A	4700998		1987/88	GC, A	¥330,000	
G-	Electronic Balance	A&D/FX-320	5100676		1987/88	GC, A	¥168,000	
G-	Magnetic Mixer	YAMATO/MD-41	232		1987/88	GC, A	¥65,000	
G-	pH Meter	HORIBA/F-8	706010		1987/88	GC, A	¥200,000	
S-	Sera Dot	HYBAID/	--					
G-	Inverted Microscope	OLYMPUS/CK2	826664		1987/88	GC, A	¥569,000	
G-	Inverted Microscope	OLYMPUS/CK2	824783		1987/88	GC, A	¥569,000	
G-	Auto Sera Dot	BIO TECK/6072	70811		1987/88	WC, C	¥4,938,000	Oil bottle required.
G-	Electrophoresis	LKB/2301	1712		1987/88	GC, A	¥165,000	
G-	HS Refrigerated Centrifuge	HITACHI/SCR-20BA	77681		1987/88	NW,	¥5,798,000	Compressor burnt out. Under repair.
G-	Micro Centrifuge	KUBOTA/KA-2200	M51583		1987/88	GC,	¥160,000	
	[Room No. 210 -]							
G-	Deep Freezer	SANYO/MDF-440	8070999		1987/88	GC, A	¥530,000	
G-	CO2 Incubator	SANYO/MCO-165T	7080848		1987/88	NW,	¥1,080,000	
G-	Centrifuge	KUBOTA/KS-8000	L50371		1987/88	GC, A	¥631,000	
G-	Centrifuge	KUBOTA/KS-8000	L50374		1987/88	GC, A	¥631,000	
G-	Centrifuge	KUBOTA/KS-8000	L50344		1987/88	GC, A	¥631,000	
G-	Micro Centrifuge	KUBOTA/KA-2200	M51584		1987/88	GC, A	¥160,000	
G-	Inverted Microscope	OLYMPUS/CK2	012397		1987/88	GC, A	¥569,000	
G-	CO2 Incubator	SANYO/MCO-325T	7080825		1987/88	GC,	¥2,100,000	
G-	CO2 Incubator	SANYO/MCO-325T	7080827		1987/88	GC,	¥2,100,000	
G-	Electronic Balance	A&D/FX-3200	5301359		1987/88	GC, A	¥160,000	
G-	Microscope	OLYMPUS/8H2	010980		1987/88	GC, A	¥365,000	
G-	Auto. Staining Machine	SAKURA/DRS-60A	4807213		1987/88	GC, A	¥2,510,000	
G-	Magnetic Mixer	YAMATO/MH-81	230		1987/88	GC, A	¥164,000	
G-	Slide Wamer	SAKURA/PS-52	4705226		1987/88	GC,		
S-	Water Purification System Milli-R010		--			GC, A		
S-	Water Purification System Milli-Q/UF Plus		--			GC, A		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Medical Gentics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Fume Hood	YAMATO/MS-70	233021		1987/88	GC, A	¥376,000	
G-	Hot Plate	SAKURA/	4802399		1987/88			
G-	Micro Tuba Mixer	TOMY/MT-300	--		1987/88	GC, A	¥122,000	
G-	Ultrasonic Pipette Washer	AINA/AV-100CR	10325		1987/88	GC, A	¥276,000	
[Room No. 305 - Radioactive Lab.]								
G-	A Preparative Centrifuge	HITACHI/85P-72	88370		1988/89	GC, A	¥18,800,000	
G-	Electrophoresis	LKB/2197	--		1987/88	GC, A	¥1,223,000	
S-	Water Bath	HAKKE/KT2	873940			GC, A		
T-	Electrophoresis	ATTA/3500	--			GC, A		Acompanied equipment.
[Room No. 306 - HPLC Lab.]								
S-	HPLC	LKB/2140/1208	--			GC, A		
S-	HPLC	LKB/2150/2152/2151	--			GC, A		
G-	Medical Refrigerator	SANYO/MPR-510	7080845		1987/88	GC, A	¥286,000	
G-	Fraction Collector	LKB/2212	--		1988/89	GC,		
G-	Water Bath	YAMATO/	5200			GC, A		
G-	Centrifuge	KUBOTA/KR-1500	M80379		1987/88	GC, A	¥346,000	
[Room No. 307 - Washing Room]								
G-	Water Still	YAMATO/WG-75	227004		1987/88	NW,	¥1,291,000	
G-	Drying Sterilizer	YAMATO/SH-62	233030		1987/88	GC, A	¥185,000	
[Room No. 308 - DNA Lab.]								
G-	Deep Freezer	SANYO/MDF-381AT	8070959		1987/88	GC, A	¥1,600,000	
G-	Deep Freezer	SANYO/MDF-440	8070997		1988/89	GC, A	¥530,000	
G-	Micro Centrifuge	KUBOTA/KR-1500	M80378		1987/88	GC, A	¥346,000	
G-	Centrifuge	KUBOTA/KS-8000	L50370		1987/88	GC, A	¥631,000	
G-	Shaker	KAYAGAKI/KR-3N	29573		1987/88	GC, A	¥146,000	
G-	Ultra Centrifuge	BECKMAN/TL-100	T0815		1988/89	NW,	¥11,450,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Medical Genetics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Handy Aspirator	YAMATO/WP-15	300062		1987/88	GC, B		
G-	Electronic Balance	A&D/FX-3200	53301385		1987/88	GC, A	¥168,000	
S-	Speed Vacuum Centrifuge	/C-200	IC1371-2A			GC, A		
T-	UV Crosslinker	FUNAKOSHI/CL-1000	112493-01			GC, A		
S-	Micro Tube Mixer	TOMY/MT-300	30010		1987/88	GC, A	¥122,000	
T-	Electrophoresis	ATTA/AE-3750 PARIDRY	300482			GC, A		
S-	Sonifier Cell Disruptor	/350	BE50038L			GC, A		
G-	Slab Gel Dryer	LKB/2003	778		1987/88	GC, A	¥177,000	
G-	Incubator	SANYO/MIR-260	8070975		1988/89	GC, A	¥200,000	
G-	Microwave Oven	SANYO/EM-2510	3247200677		1988/89	GC, A	¥98,000	
G-	Vacuum Oven	YAMATO/DP-41	243530		1988/89	GC, A		
G-	Incubator	SANYO/MIR-551	7080835		1987/88	GC, A	¥709,000	
G-	Table-Top Autoclave	SANYO/MAC-1200	000253		1987/88	GC, A	¥152,000	
G-	Water Bath	YAMATO/BT-47	228008		1987/88	GC, A	¥537,000	
G-	Micro Centrifuge	KUBOTA/KR-1500	880376		1987/88	GC, A	¥346,000	
S-	Refrigerated Centrifuge	DUPONT/Technospin-R	430020					
G-	Refrigerated Centrifuge	HITACHI/SCR-7BA	98104		1988/89	GC, A	¥3,148,000	
G-	Centrifuge	HITACHI/CR-20B2	98239		1988/89	GC, A	¥2,070,000	
G-	Electrophoresis	LKB/2297	3332		1987/88	GC,		
G-	Electrophoresis	LKB/3332	--		1987/88	GC, A		
G-	Electronic Balance	A&D/FX-320	510107B		1987/88	GC, A	¥168,000	
G-	Incubator	SANYO/MIR-551	8070975		1987/88	GC, A	¥709,000	
G-	Homogenizer	BRANSON/350	8350038A		1988/89	GC, A	¥649,000	
	[Room No.309 - culture & Cloning]							
G-	L. Scintillation Counter	Beckman/LS-5000TA	7040094		1987/88	NH,	¥12,921,000	
G-	Universal Gamma Counter	LKB/1262	--		1988/89	GC, A	¥7,500,000	
G-	Magnetic Mixer	YAMATO/MH-81	230		1987/88	GC,		
G-	Incubator	SANYO/MIR-260	8070965		1988/89	GC, A	¥200,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Medical Genetics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Room No. 310 - Enzymology Lab.]							
G-	Electronic Balance	A&D/ER-182A	4701000		1987/88	GC, A	₹330,000	
G-	Micro Centrifuge	KUBOTA/KA-2200	M51577		1987/88	GC, A	₹160,000	
S-	DNA Thermal Cycler	Darkin Elmer/480	--			GC, A		
S-	Phast System	PHARMACIA/	231758		1987/88	GC, A	₹2,075,000	
G-	LSC Homogenizer	YAMATO/LH-21	213018		1987/88	GC, A	₹309,000	
G-	Fume Hood	YAMATO/MS-70	233023		1987/88	GC,	₹376,000	25/03/97, repaired by BMED.
G-	Deep Freezer	SANYO/MDF-440	8070998		1988/89	GC, A	₹530,000	
G-	Medical Refrigerator	SANYO/MPR-510	7080846		1987/88	GC, A	₹286,000	
G-	Ultra Low Freezer	SANYO/MDF-381AT	8070987		1988/89	GC, A	₹1,700,000	
G-	Immuno Electrophoresis	JOOKOO/CTE-150	210057		1987/88	NW,	₹6,828,000	
G-	Refrigerated Centrifuge	HITACHI/SCR7BA	98107		1987/88	GC, A	₹2,696,000	
S-	Water Bath	HAKKE/KT2	873938			GC, A		
G-	Electrophoresis	LKB/2301	1672		1987/88	GC, A	₹165,000	
S-	S. Stand Coulter Counter	COULTER/	--			GC,		
S-	Micro Centrifuge	DUPONT/Superspin-R	--			GC, A		
G-	BOD Incubator	SANYO/MIR-551	7080850		1987/88	GC, A	₹709,000	
G-	Electronic Balance	A&D/ER-182A	4701000		1987/88	GC,	₹330,000	
G-	Fraction Collector	LKB/2212	2923		1988/89	GC,		
G-	Medical Refrigerator	SANYO/MPR-510R	--		1987/88	GC,	₹286,000	
	[Room No. 311 - Hematology Lab.]							
G-	Microscope	OLYMPUS/BH2	D39433		1987/88	GC, A	₹368,000	
G-	Micro Cell Counter	SYSMEX/F-800	--		1988/89	GC, A	₹2,440,000	
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC, A	₹65,000	
G-	Centrifuge	HITACHI/CR-20B2	98238		1988/89	GC, A	₹1,590,000	
G-	Refrigerated Centrifuge	HITACHI/SCR7BA	98108		1988/89	GC, A	₹3,148,000	
G-	Deep Freezer	SANYO/MDF-381AT	8070977		1988/89	GC, A	₹1,600,000	
G-	Medical Refrigerator	SANYO/MPR-510	7080843		1987/88	GC,	₹286,000	
G-	Electrophoresis	LKB/2301	1710		1987/88	GC, A	₹165,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Medical Genetics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Electronic Balance	A&D/ER-182A	4701007		1987/88	GC, A	¥330,000	
G-	Electronic Balance	A&D/FX-3200	5301360		1987/88	GC, A	¥168,000	
G-	pH Meter	HORIBA/F-8AT	7080236		1987/88	GC, A	¥421,000	
G-	Magnetic Mixer	YAMATO/MD-41	232		1987/88	GC, A	¥63,000	
G-	Incubator	SANYO/MIR-260	8070961		1988/89	GC, A	¥200,000	
G-	Spectrophotometer	HITACHI/150-20	6241-005		1987/88	GC, A	¥2,121,000	
	[Room No. 312 -- IEM Lab.]							
S-	Cell Washer	DUPONT/--	--			GC, A		
G-	Centrifuge	KUBOTA/KS-8000	L50373		1987/88	GC, A	¥631,000	
G-	Electrophoresis	LKB/2301	1720		1987/88	GC, A	¥165,000	
G-	D Gradient Fractionator	HITACHI/DGF-U	88816		1987/88	GC, A		
G-	P Liquid Processor	NICHIRYO/Milutor	--		1987/88	GC, A	¥1,169,000	
G-	Electronic Balance	A&D/FX-320	5100667		1987/88	GC, B	¥168,000	
G-	Electronic Balance	A&D/ER-180A	4700999		1987/88	GC, B	¥330,000	
G-	Shaker	YAMATO/SA-31	--		1987/88	GC, A		
G-	Amino Acid Analyzer	LKB/4151	--		1987/88	NW, A		29/01/96, repaired by BMED.
G-	Deep Freezer	SANYO/MDF-440	8070995		1988/89	GC, A	¥530,000	
G-	Fluor. Spectrophotometer	HITACHI/F-3000	6222-014					
G-	Laser Densitometer	LKB/2202	5503200		1987/88	GC, A	¥3,145,000	
G-	pH Meter	HORIBA/F-8AT	--		1987/88	GC, A		
S-	Eliza Reader	Tilartek/HCC-340	1002-00401			GC,		
G-	Sera Washer	Biotec/MW-965SD	--		1987/88	GC,		
G-	Fume Hood	YAMATO/MS-70	233024		1987/88	GC, A	¥376,000	
G-	pH Meter	HORIBA/F-8	708029		1987/88	GC, A	¥200,000	
S-	Micro Tube Mixer	/MT-31	30010			GC, A		

List of Equipment as of 1997

S. G. P. G. I., Lucknow

LOCATION: Medical Genetics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Ice Making Machine	SANYO/SIM-E61	700011		1987/88	NW,	¥257,000	Awaiting for spare parts.
G-	Ice Making Machine	SANYO/SIM-F161	700012		1987/88	NW,	¥761,000	Awaiting for spare parts.
G-	Ice Making Machine	SANYO/SIM-F161	700064		1987/88	NW,	¥761,000	Awaiting for spare parts.
G-	106 Homogenizer	YAMATO/LR-41	227		1987/88	GC,	¥183,000	
G-	203 Microscope	OLYMPUS/BH2	230377		1987/88	GC,	¥368,000	
G-	Microscope	OLYMPUS/BH2	230357		1987/88	GC,	¥368,000	
G-	Inverted Microscope	OLYMPUS/CK2	H72601		1987/88	GC,	¥569,000	
G-	204 Microscope	NIKON/FX	H721051		1988/89	GC,		
G-	Microscope	OLYMPUS/BH2	--		1987/88	GC,	¥368,000	
G-	TV Monitor	JVC/--	12349457			GC,		
G-	Video Camera	JVC/KYM280	17050004			GC,		
G-	Diff. Leukocyte Counter	Kayagaki/MDT-120	30360		1987/88	GC,		
G-	205 Fluorescence Microscope	OLYMPUS/AHBS-514	72603		1988/89	GC,	¥2,287,000	
G-	205 Inverted Microscope	OLYMPUS/CK2	H72602		1987/88	GC,	¥569,000	
G-	Inverted Microscope	OLYMPUS/CK2	H72620		1987/88	GC,	¥569,000	
G-	207 Ultrasonic Pipette Washer	AIMA/AV-100CR	10324		1987/88	GC,	¥276,000	
G-	208 Homogenizer	YAMATO/LR-41	227		1987/88	GC,	¥183,000	
G-	209 CO2 Incubator	SANYO/MCO-325T	7080826		1987/88	GC,	¥2,100,000	
G-	CO2 Incubator	SANYO/MCO-325T	8070951		1987/88	GC,	¥2,100,000	
G-	Microscope	OLYMPUS/BH2	230041		1987/88	GC,	¥365,000	
G-	Centrifuge	KUBOTA/KS-8000	L50369		1987/88	GC,	¥631,000	
G-	210 Incubator	SANYO/MIR-260	8070962		1987/88	GC,	¥200,000	
G-	Incubator	SANYO/MIR-260	8070969		1988/89	GC,	¥200,000	
G-	Tube Mixer	TOHY/MT-360	30006		1987/88	GC,	¥122,000	
G-	Deep Freezer	SANYO/MDF-381AT	8070978		1987/88	GC,	¥1,600,000	
G-	Slide Cleaner	SAKURA/VF-5	4802397		1987/88	GC,	¥84,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Medical Genics

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G- 305	Heating Block	YAMATO/HF-61	173		1987/88	GC,	¥120,000	
G- 306	Ultrasonic Cleaner	YAMATO/5200-J4	--		1987/88	GC,	¥167,000	
G- 308	Electrophoresis	LKB/2197	10045		1987/88	GC,	¥1,231,000	
G- 310	Diff. Leukocyte Counter	ERMA/01-950-0	3397		1987/88	GC,		
G-	Microscope	OLYMPUS/BH2	230369		1987/88	GC,		
G- 312	Centrifuge	KUBATA/KS-8000	L50308		1987/88	GC,	¥631,000	
G-	Incubator	SANYO/MIR-260	8070952		1988/89	GC,	¥200,000	
G-	Deep Freezer	SANYO/MDF-440	8070999		1988/89	GC,	¥530,000	
G-	Hot Plate	YAMATO/HK-21	228		1987/88	GC,	¥80,000	
G- 314	Micro Plate Washer	Titertek/58-12	0954		1987/88	GC,		

162-3-22-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Microbiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	{Bactaeology}							
G-	Colony Analyzer	TOYO//CA-7	87060003		1987/88	WC, C	¥4,168,000	Software missing.
G-	MIC Measuring System	TOYO/	--		1987/88	WC, C	¥1,452,000	
G-	Micro Planter	TOYO/HIT-P	00390		1987/88	WC, C	¥275,000	
G-	CCTV Camera	T. Denshi/VC-6033	621114		1987/88	GC,		
G-	Centrifuge	KUBOTA/KA-2200	M57586		1987/88	GC, A	¥160,000	
S-	Shaker	Becton Dickison/--	--			GC, A		
S-	CO2 Incubator	Jouan/IG-150	--			GC, A		
G-	Incubator	SANYO/HIR-551	7080834		1987/88	GC, A	¥618,000	
G-	Incubator	SANYO/HIR-260	8070972		1987/88	GC, A		
G-	Microscope	OLYMPUS/BH2	012569		1987/88	GC, A	¥368,000	
S-	Automatic Filling Liner	Jouan/DM-150	--			NW,		
G-	Autoclave	YAMATO/SM-51	142538		1987/88	GC, A	¥772,000	
G-	Drying Sterilizer	YAMATO/SH-62	--		1987/88	WC, C	¥185,000	Gascket defective.
G-	Water Bath	EYELA/SB-24	10871300		1987/88	GC, A		
	{Anaerobic Bacteriology}							
S-	Gas-chromatograph	NUCON/5700	--			NW,		
G-	Anaerobic Incubator	HIRASAWA/ANX-1	309		1987/88	WC, C	¥3,052,000	Gas leakage.
S-	Freeze Dry System	LABCONCO/LYPH LOCK12	230942			WC, C		Lid broken.
T-	Vacuum Pump	YAMATO/294	--			GC,		
T-	Freeze Dry System	EDWARDS/	--		1994	GC, A	¥2,110,000	
T-	Vacuum Pump	EDWARDS/EZM2	63562		1994	GC, A		
	{Serology}							
G-	Eliza Analyzer	TOYO/ETY-96	870676		1987/88	NW,	¥5,500,000	
T-	Kinetics Reader	BioTec/EL3120	--		1994	GC, A	¥8,330,000	12/1996, repaired.
T-	Printer	KODAK/180s1	--		1994	GC, A		
T-	Automatic Dispenser	BioTec/96A	505013075		1994	GC, C		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Microbiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
T-	Automatic Dilutor	BioTec/96A-1-6	434009		1994	GC, C		
T-	Auto Washer	BioTec/EL403	--		1994	GC, C		
G-	Refrigerated Centrifuge	HITACHI/SCR7BA	87091		1987/88	GC,	¥2,696,000	
	[P.G. Lab.]							
N-	CO2 Incubator	Jouan/VX-530	51500216			GC, A		
T-	Refrigerated Centrifuge	HITACHI/CR-21	11151		1994	GC, A	¥2,430,000	Under AMC.
T-	Ultra Centrifuge	BECKMAN/L-70	--		1994	GC, A	¥15,950,000	Under AMC.
G-	Microscope	OLYMPUS/BH2	010005		1987/88	GC, A	¥368,000	
T-	Electrophoresis	BIO RAD/1655057	188434		1994	GC, A	¥1,310,000	
G-	Shaker	YAMATO/SA-31	--		1987/88	GC, A	¥250,000	
G-	Water Bath	YAMATO/BH-71	B6476		1987/88	GC, A	¥617,000	
	[Hospital Servayranca]							
G-	Ultrasonic Cleamer	SAKURA/US-5E	4707066		1987/88	GC, A	¥117,000	
S-	Water Purification Sys.	BilliQ-plus	--			GC, A		04/12/95, carteidga changed.
S-	Ultra Pure Water System	Millipore/	--			GC, A		24/09/96, carteidga changed.
	[Virology]							
G-	H-Speed Refg. Centrifuge	HITACHI/CR20B2	98237		1988/89	GC, A		Under AMC.
T-	Ultra Low Freezer	SANYO/MDF-382AT	40201032		1994	GC, A	¥2,220,000	
G-	CO2 Incubator	SANYO/MCO-165T	7080830		1987/88	GC, A	¥1,080,000	
G-	CO2 Incubator	SANYO/MCO-165T	--		1987/88	GC, A	¥1,080,000	
T-	CO2 Incubator	SANYO/--	--		1994	GC, A	¥2,270,000	
T-	CO2 Incubator	SANYO/--	--		1994	GC, A	¥2,270,000	
G-	Microscope with Camera	NIKON/BFX-DX	312093		1988/89	GC, B	¥4,003,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Microbiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	{Tuberculosis}							
G-	Microscope	OLYMPUS/BH2	010451		1987/88	GC, A	¥368,000	
G-	Refrigerated Centrifuge	HITACHI/SCR7BA	67090		1987/88	GC, A	¥2,696,000	Under AMC.
G-	Centrifuge	KUBOTA/KS-9000	L80885		1987/88	GC, A	¥797,000	
	{Parasitology}							
G-	Microscope	OLYMPUS/BH2	012859		1987/88	GC, A	¥368,000	
G-	Ultra Deep Freezer	SANYO/MDF-790AT	2080849		1987/88	NW,	¥2,273,000	Under repair.
G-	Slide Stainer	SAKURA/DRS-60A	4807212		1987/88	NW,	¥2,510,000	
G-	306 Spectrophotometer	HITACHI/150-20	6241-008		1987/88	GC,	¥2,121,000	
G-	Magnetic Stirrer	YAMATO/MD-41	232		1987/88	GC,	¥65,000	
G-	Stirrer	YAMATO/L-41C	227		1987/88	GC,		
G-	307 Low Temp. Water Bath	YAMATO/CTE-24A	2110326		1987/88	GC,		
G-	Microscope	OLYMPUS/BH2	818445		1987/88	GC,	¥368,000	
G-	Homogenizer	YAMATO/HL-21	218014		1987/88	GC,	¥309,000	
G-	Homogenizer	BRABSON/350	60015A		1987/88	GC,	¥649,000	
G-	310 pH Meter	HORIBA/F-8	706016		1987/88	GC,		
G-	Autoclave	YAMATO/SM-51	232002		1987/88	GC,	¥772,000	
G-	Autoclave	YAMATO/SM-51	232010		1987/88	GC,	¥772,000	
G-	Electronic Balance	A&D/FX-320	5101079		1987/88	GC,	¥168,000	
G-	Microscope	OLYMPUS/BHT-112	721061		1987/88	GC,	¥586,000	
G-	Phase Contrast Microscope	OLYMPUS/BHS-313	--		1987/88	GC,		
G-	311 Microscope	OLYMPUS/BHT-112	234107		1987/88	GC,	¥586,000	
G-	pH Meter	HORIBA/F-8AT	706013		1987/88	GC,		

41-8-7-1

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Nephrology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Dialysis Room]							
G-	Hemodialysis Machine	TORAY/TR-321	7002	1/	1987/88	GC, A	¥2,900,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7003	1/	1987/88	GC, A	¥2,900,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7004	1/	1987/88	GC, A	¥2,900,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7005	1/	1987/88	GC, A	¥2,900,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7006	1/	1987/88	GC, A	¥2,900,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7010	1/	1987/88	GC, A	¥2,900,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7012	1/	1987/88	NW,	¥2,900,000	Replaced for new equipment.
G-	Hemodialysis Machine	TORAY/TR-321	7013	1/	1987/88	GC, A	¥2,900,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7W1	1/	1987/88	GC, A	¥2,594,000	Overhaul required.
G-	Hemodialysis Machine	TORAY/TR-321	7W7	1/	1987/88	NW,	¥2,594,000	Replaced for new equipment.
G-	Hemodialysis Machine	TORAY/TR-321	7W8	1/	1987/88	NW,	¥2,594,000	Replaced for new equipment.
G-	Hemodialysis Machine	TORAY/TR-321	7W9	1/	1987/88	NW,	¥2,594,000	Replaced for new equipment.
G-	Hemodialysis Machine	TORAY/TR-321	7W11	1/	1987/88	GC, A	¥2,594,000	Overhaul required.
S-	Hemodialysis Machine	B. BRAUN/HD-secura	--	1/	1995	GC, A		
S-	Hemodialysis Machine	B. BRAUN/HD-secura	--	1/	1995	GC, A		
S-	Hemodialysis Machine	B. BRAUN/HD-secura	--	1/	1995	GC, A		
S-	Hemodialysis Machine	B. BRAUN/HD-secura	--	1/	1995	GC, A		
G-	Peritoneal Dialysis M.	JMS/PD-OZE	E7060908A	1/	1987/88	GC, A	¥2,650,000	
G-	Peritoneal Dialysis M.	JMS/PD-OZE	E7060011B	1/	1987/88	GC, A	¥2,650,000	
G-	Peritoneal Dialysis M.	JMS/PD-OZE	E7060005C	1/	1987/88	GC, A	¥2,650,000	
G-	Peritoneal Dialysis M.	JMS/PD-OZE	E7060006D	1/	1987/88	GC, A	¥2,650,000	
G-	S.N. Hemodialysis Unit	NIKKISO/DKS-11	N6B04-006	1/	1987/88	GC, B	¥354,000	
G-	S.N. Hemodialysis Unit	NIKKISO/DKS-11	N6B04-008	1/	1987/88	GC, B	¥354,000	
G-	S.N. Hemodialysis Unit	NIKKISO/DKS-11	N6B04-010	1/	1987/88	GC, B	¥354,000	
G-	Central Water Supply	MITSUBISHI/HRE-DC20S	1821	1/	1987/88	GC, A	¥1,277,000	02/1997, repaired by BMED.
G-	Coagulation Meter	ERMA/TE-25	C94011E	1/	1987/88	GC, A	¥249,000	
G-	Blood Pump	JMS/BP-01	7070864	1/	1987/88	GC, A	¥326,000	01/1997, repaired by BMED.
G-	Blood Pump	JMS/BP-01	7070865	1/	1987/88	GC, A	¥326,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Nephrology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Blood Pump	JMS/BP-01	7070866	1/	1987/88	GC, A	¥326,000	
G-	Blood Pump	JMS/BP-01	7070867	1/	1987/88	GC, A	¥326,000	
G-	Blood Pump	JMS/BP-01	7070868	1/	1987/88	GC, A	¥326,000	
G-	Heparin Infusion Pump	JMS/SP-01	7070612	1/	1987/88	GC, A	¥167,000	01/1997, repaired by BMED.
G-	Heparin Infusion Pump	JMS/SP-01	7070613	1/	1987/88	GC, A	¥167,000	
G-	Heparin Infusion Pump	JMS/SP-01	7070614	1/	1987/88	GC, A	¥167,000	
G-	Heparin Infusion Pump	JMS/SP-01	7070615	1/	1987/88	GC, A	¥167,000	
G-	Heparin Infusion Pump	JMS/SP-01	7070677	1/	1987/88	GC, A	¥167,000	
G-	Heparin Infusion Pump	JMS/SP-01	7070876	1/	1987/88	GC, A	¥167,000	
G-	Conductivity Meter	NIKKISO/SC51	51955	3/	1987/88	GC,	¥229,000	
G-	Defibrillator	N. KONDEN/TEC-5200B	21378	1/CF	1987/88	GC, A	¥1,230,000	08/1996, repaired by BMED.
G-	Deep Freezer	SANYO/MDF-190AT	8070909		1988/89	GC, A		
G-	Osmometer	K. DAIICHI/OM-6020	609102		1988/89	GC, A	¥2,558,000	
G-	Bedpan Sanitizer	SANKO/SS-8	--		1988/89	GC,	¥473,000	
	[Ward]							
G-	1ch ECG	N. KONDEN/ECG-6551	00149	3/BF	1987/88	GC,	¥245,000	08/1996, repaired by BMED.
G-	Suction Unit	ASAHI/700	M834	3/	1988/89	GC,	¥183,000	
	40-0-4-0							
G-	Bedpan Sanitizer	SANKO/SS-8	(× 27sets -- ¥12,271,000)					
	27-0-0-0							

List of Equipment as of 1997
S.G.P.G.I., Lucknow

LOCATION: Neurology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Neuro Lab.]							
G-	Dual-WL TLC Scanner	SHIMADZU/CS-930	1256097		1987/88	GC,		06/1995, repaired by BMED.
G-	Spectrophotometer	SHIMADZU/UV-160C	1236661		1987/88	GC,	¥1,312,000	
G-	Spectrophotometer	SHIMADZU/UV-265	125343		1987/88	NH,	¥2,719,000	Awaiting for spare parts.
G-	Automatic Dilutor	SHIMADZU/DIP-1	124869		1987/88	GC,		
G-	Automatic Dilutor	SHIMADZU/DIP-1	124871		1987/88	GC,		
G-	Electronic Balance	A&D/FX-320	5301363		1987/88	GC,	¥168,000	
G-	pH Meter	HORIBA/F-8	706012		1987/88	GC,	¥200,000	
G-	Ultra Low Deep Freezer	SANYO/MDF-190AT	8070989		1988/89	GC,		
	[EEG Department]							
G-	Evoked Response Recorder	N. KOHDEN/NEB-5200	00216	3/	1987/88	GC, A	¥2,880,000	
G-	X-Y Plotter	N. KOHDEN/WX-4731	--		1987/88	GC, A	¥341,000	
G-	Recorder	N. KOHDEN/WS-751J	--		1987/88	GC, A	¥330,000	
G-	Flush Simulator	N. KOHDEN/SLS-3100	20370	3/	1987/88	GC, A	¥209,000	
G-	Video Picture Monitor	N. KOHDEN/SM-752J	--		1987/88	GC, A	¥131,000	
G-	LED Visual Stimulator	N. KOHDEN/SLS-3500	--	3/	1987/88	GC, A		
S-	Evoked Response Recorder	DANTAC/2000C	902DM02031310	3/		GC, A		
S-	Evoked Response Recorder	DANTAC/B000	9016G1002	3/		GC, A		
G-	21ch EEG	N. KOHDEN/EEG-4321F	00067	3/	1987/88	GC, A	¥4,508,000	
G-	18ch EEG	NEC-Sanei/IA-97A	--	3/	1987/88	GC,	¥3,823,000	

11-0-2-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Neuro Surgery

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	{Operation Theatre- I }							
G-	Anaesthesia Apparatus	ACOMA/KMA-1300F II	14848	1/	1987/88	GC, A	₹4,731,000	05/1997, repaired by BMED.
G-	Operating Table	MIZUHO/MST-7000N	--	4/	1987/88	GC, A	₹5,249,000	
S-	Ripple Heart B. Wamer	HAWKLEY/6140	88427	3/		GC, A		
G-	Electrosurgical Unit	ACOMA/ACUTOR-S	3282	1/ I	1987/88	GC, A	₹1,414,000	
G-	Suction Unit	ASAHI/700	M825	3/	1988/89	GC, A	₹183,000	01/1997, repaired by BMED.
S-	Patient Monitor	HP/78534C	2740A05506	3/BF		GC, A		
G-	F. Optic Illuminator	PILLING/	412		1987/88	GC, A		
G-	Bipolar Coagurator	TokaiRika/	123	1/	1987/88	GC, A		
S-	Surgical Microscope	Wild/	002F			GC, A		
G-	Operating Light	DAIKYO/9010JHS	--	4/	1987/88	GC, A	₹1,911,000	
G-	NIBP	N. KONDEN/MPV-7201	00253	3/	1987/88	GC, A	₹425,000	
G-	Colour TV Monitor	SONY/PVM-2130QM	2004201		1987/88	GC, B		
G-	Video Tape Recorder	JVC/HR-D257MS	123L1998		1987/88	GC, B		
G-	Nurse Plat Form	MIZUHO/	80689037		1987/88	GC, A		
S-	Surgical Microscope	Wild/	002F			GC, A		
G-	NIBP	N. KONDEN/MPV-7201	00253	3/	1987/88	GC, A	₹425,000	
	{Operation Theatre- II }							
G-	Anaesthesia Apparatus	ACOMA/KMA-1300F II	14847	1/	1987/88	GC,	₹4,731,000	
S-	Electrosurgical Unit	BOVIE/X-10	AK1112	1/		GC, A		
S-	Patient Monitor	HP/78534C	--	3/BF		GC, A		
G-	NIBP	N. KONDEN/MPV-7201	00254	3/BF	1987/88	GC,	₹425,000	03/1997, repaired by BMED.
S-	Ripple Heart B. Wamer	HAWKLEY/6140	88322	3/		GC, A		
S-	Suction Machine	AESUCLAP/Secura-80	988232	3/		GC, A		
G-	Operating Light	DAIKYO/9000HE	62M023	4/	1987/88	GC,	₹538,000	
G-	F. Optic Illuminator	PILLING/	414		1987/88	GC, A		
G-	Operating Table	MIZUHO/MST-7000N	80577308	4/	1987/88	GC,	₹5,249,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Neuro Surgery

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Operation Theatre-III]							
G-	Anaesthesia Apparatus	ACOMA/PH-3P	14848	1/	1987/88	GC, A	¥1,697,000	
G-	Suction Unit	ASAHI/700	H822	3/	1988/89	GC, A	¥183,000	01/1997, repaired by BHED.
S-	Electrosurgical Unit	BOVIE/X-10	JJ1111	1/		GC, A		
G-	Patient Monitor	N. KOHDEN/OEC-8108K	00070	3/BF	1987/88	GC, A	¥1,460,000	10/1996, repaired by BHED.
G-	Ventilator	Ohmada/700	CAAS01768	1/	1987/88	GC, A		
G-	Operating Light	DAIKYO/9000HC	58B1037	4/	1987/88	GC, A	¥538,000	
S-	OT Binocular Microscope	NAGASHIMA/6FDA	9202			GC, A		
S-	Micro Chair	MIZUHO/850	--	4/		GC, A		
S-	Operating Table	Schaerer/Type-S	1359	4/		GC, A		
G-	Ultrasonic Surgical Unit	Cooper/CUSA	--	1/	1987/88	NW,	¥12,085,000	18V power supply defective.
G-	Light Source for E.Scope	OLYMPUS/CLE-F10	7633111		1987/88	GC, B	¥754,000	
G-	Electrosurgical Unit	OLYMPUS/UES-10	3700580	1/	1987/88	GC, B	¥1,125,000	
G-	Electrosurgical Unit	ACOMA/ACUTOR-S	3287	1/ 1/	1987/88	GC, B	¥1,414,000	
S-	DINAMAP	CRITIKON/1846SX	8261H1283		1987/88	NW,		
G-	Patient Monitor	N. KOHDEN/OMP-7203K	20397	3/BF	1987/88	GC, B	¥2,399,000	
G-	NIBP	N. KOHDEN/MPV-7201	00258	3/	1987/88	GC, B	¥425,000	
G-	Syringe Infusion Pump	NAKAHURA/SP-60	1535	1/	19867/88	GC, C	¥278,000	
S-	Syringe Infusion Pump	Graseby/3100	189217	1/		GC,		
G-	CO2 Monitor	ACOMA/AS-25	139	3/	1987/88	NW,	¥207,000	
G-	ENG/Evoked Response	NEM-4104K	000738	3/	1987/88	GC, B	¥6,800,000	
G-	Infant Incubator	ATOM/V-80S/C	6107726	3/	1987/88	GC, B	¥804,000	
G-	Infant Incubator	ATOM/V-80S/C	6107727	3/	1987/88	GC, B	¥804,000	
S-	Ripple Heart B. Wamer	HANKLEY/6140	88530	3/		GC, A		
G-	Suction Machine	ASAHI/700	H830		1988/89	NW,	¥103,000	
G-	Defibrillator	N. KOHDEN/TEC-5200B	21376	1/CF	1987/88	GC, B	¥1,230,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Neuro Surgery

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	CCD Camera	AESUCLAP/P-7200	1143		1987/88	GC, B		
G-	Colour TV Monitor	JVC/VM-R190SU	10360256		1988/89	GC, B	¥280,000	
G-	Colour TV Monitor	JVC/VM-R190SU	10360260		1988/89	GC, B	¥280,000	
G-	Video Tape Recorder	JVC/CR-600U	09311031		1988/89	GC, B		
G-	Colour TV Monitor	SONY/PVM-2130QM	2004352		1987/88	GC, B		
G-	Colour TV Monitor	SONY/PVM-2043MD	2001044		1987/88	GC, B		
G-	Cold Light Source	Stortz/490S	--		1988/89	GC, C		
G-	Ultrasonic Cleaner	SAKURA/US-5E	4707072		1987/88	GC, C	¥117,000	
G-	CO2 LASER Unit	NIIC/IR-104	70115040	1/	1987/88	NW,	¥15,913,000	Two way gas valves defective.
G-	Operating Light	DAIKYO/9010JHS	62A111	4/	1987/88	GC,	¥1,911,000	01/1997, repaired by BMED.
G-	Operating Light	DAIKYO/9010JHS	62A113	4/	1987/88	GC,	¥1,911,000	
G-	Anaesthesia Apparatus	ACOMA/KMA-1300F II	14846	1/	1987/88	GC,	¥4,731,000	
G-	BP Coagulation Unit	ACOMA/ACUTOR-MC	3291	1/	1987/88	GC,	¥320,000	
G-	Electrosurgical Unit	ACOMA/ACUTOR-S	3286	1/ 1/	1987/88	GC,	¥1,414,000	
G-	Electrosurgical Unit	ACOMA/ACUTOR-S	3283	1/	1987/88	GC,	¥1,414,000	
G-	Light Source for R. Scope	OLYMPUS/UES-2	--		1987/88	GC,		
G-	Operating Table	MIZUHO/MST-7000N	80562221	4/	1987/88	GC,	¥5,249,000	12/1996, repaired by BMED.
G-	Operating Table	MIZUHO/MST-7000N	80562222	4/	1987/88	GC,	¥5,249,000	02/1997, repaired.
G-	CO2 Monitor	ACOMA/AS-25	140	3/	1987/88	NW,	¥207,000	
G-	Defibrillator	N/KOHDEN/TEC-5200B	21371	1/CF	1987/88	NW,	¥1,230,000	11/1996, repaired by BMED.
G-	1ch ECG	N. KOHDEN/ECG-6551	00146	3/BF	1987/88	GC,	¥245,000	12/1996, repaired by BMED.
G-	NIBP	N. KOHDEN/HPV-7201	0153358A	3/BF	1987/88	GC,	¥425,000	03/1997, repaired by BMED.
G-	Suction Unit	ASAHI/700	M821	3/	1988/89	GC,	¥183,000	01/1997, repaired by BMED.
G-	Suction Unit	ASAHI/700	M822	3/	1988/89	GC,	¥183,000	10/1996, repaired by BMED.
G-	Suction Unit	ASAHI/700	M823	3/	1988/89	GC,	¥183,000	12/1996, repaired by BMED.
G-	Suction Unit	ASAHI/700	M824	3/	1988/89	GC,	¥183,000	01/1997, repaired by BMED.

List of Equipment as of 1997
S.G.P.G.I., Lucknow

LOCATION: Neuro Surgery

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Ventilator	BENNET/MA-2	8721524	1/	1987/88	NW,	¥4,414,000	
G-	Neonatal Monitor	ATOM/V-700	--	3/BF	1987/88	GC,	¥980,000	
G-	Ultrasonic Nebulizer	NAKAMURA/U-3B	1062010	3/	1987/88	WC, C	¥135,000	Awaiting for consumable parts.
S-	Operating Microscope	Wilds/	--			GC,		Not installed.
S-	Operating Microscope	Wilds/	--			GC,		Not installed.
S-	Operating Microscope	Wilds/	--			GC,		Not installed.
S-	Servo Ventilator	SIEMENS/SV-900C	--	1/		GC,		
S-	Servo Ventilator	SIEMENS/SV-900C	--	1/		GC,		
S-	Servo Ventilator	SIEMENS/SV-900C	--	1/		GC,		
S-	Servo Ventilator	SIEMENS/SV-900C	--	1/		GC,		
G-	Ultrasonic Cleaner	SAKURA/US-5E	--		1987/88	GC,	¥117,000	
G-	Ultrasonic Cleaner	SAKURA/US-5E	4707064		1987/88	GC,	¥117,000	
G-	Incubator	SANYO/MIR-260	8070967		1987/88	GC,	¥200,000	
G-	Incubator	SANYO/MIR-260	8070966		1987/88	GC,	¥200,000	
G-	Drying Sterilizer	YAMATO/SH-62	--		1987/88	GC,	¥185,000	
G-	Formalin Sanitizer	SAKURA/FSU-10	4803083		1988/89	GC,	¥1,736,000	12/1996, repaired by BMED.
G-	Formalin Sanitizer	SENKO/Scherzo40	--		1988/89	GC,		
G-	Washer Sterilizer	SAKURA/SWS-400	4707369		1987/88	GC,	¥4,713,000	
G-	Incubator	SANYO/MIR-260	8070970		1988/89	GC,	¥200,000	
G-	Microwave Oven	SANYO/EM-2510	3247200676		1988/89	GC,	¥98,000	
G-	TV Camera	JVC/KY-N2800	SC4288001		1988/89	GC,		
G-	Monitor TV	JVC/7AV	12349463		1988/89	GC,		
G-	TV Video System	JVC/B7-7700V	09311031		1988/89	GC,	¥392,000	
	{Station}							
G-	Broncho Fiberscope	OLYMPUS/BF2T10	--		1987/88	WC, A	¥1,185,000	Awaiting for consumable parts.
G-	Light Source	OLYMPUS/CLE-10	7736457		1987/88	GC,	¥855,000	
G-	TV Video System	JVC/B7-7700V	09311048		1988/89	GC,	¥392,000	
G-	TV Distribution Amp.	HASPRO/HA-65G	100006		1988/89	GC,		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Neuro Surgery

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Colour TV Monitor	JVC/VM-R190SU	--		1988/89	GC,	₹280,000	
G-	Colour TV Monitor	JVC/VM-R190SU	--		1988/89	GC,	₹280,000	
G-	Colour TV Monitor	JVC/VM-R190SU	--		1988/89	GC,	₹280,000	
G-	Colour TV Monitor	JVC/VM-R190SU	--		1988/89	GC,	₹280,000	
G-	Colour TV Monitor	JVC/VM-R190SU	--		1988/89	GC,	₹280,000	
G-	Colour TV Monitor	JVC/VM-R190SU	--		1988/89	GC,	₹280,000	
G-	Colour TV Monitor	JVC/VM-R190SU	--		1988/89	GC,	₹280,000	
G-	M. C-Arm Image Intensifier	SHIMADZU/WHA-10	--	1/	1987/88	GC, A	₹3,400,000	
	[Physical Rehabilitation]							
G-	Pack Wamer	OG/PX-15	87093E	4/	1987/88	GC, A	₹278,000	
G-	Parafin Bath	OG/NS-401	87030E	4/	1987/88	GC, A	₹426,000	
G-	Traction Unit	OG/OL-200	87411E	4/	1987/88	GC, A	₹705,000	
G-	Femoral Quadriceps Exercise	OG/GR-221	87100	4/	1987/88	GC, A		
G-	Electric Tilt Table	OG/UA-450	87061E	4/	1987/88	GC, A	₹770,000	
G-	Power Drive Chair	OG/MG12S	MC1213419	4/	1987/88	GC, A	₹337,000	
G-	Pinch Meter	OG/GT-5	86032	4/	1987/88	GC, A	₹349,000	
G-	Pinch Meter	OG/GT-5	86034	4/	1987/88	GC, A	₹349,000	
G-	Dynamometer	OG/--	--	4/	1987/88	GC, A		
G-	Battery Charger	SUZUKI/	27969		1987/88	GC, A		
G-	Carvical Traction Appts.	OG/PS-4	87119E	4/	1987/88	GC, A	₹363,000	
G-	Carvical Traction Appts.	OG/PS-4	87118E	4/	1987/88	GC, A	₹363,000	
G-	Carvical Traction Appts.	OG/PS-4	87117E	4/	1987/88	GC, A	₹363,000	
G-	Carvical Traction Appts.	OG/PS-4	87120E	4/	1987/88	GC, A	₹363,000	
G-	Microwave Therapy Appts.	OG/ME-725	87191E	4/	1987/88	GC, A	₹476,000	
G-	Ultrasonic Apparatus	OG/ES-1	87090E	4/	1987/88	GC, A	₹144,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Neuro Surgery

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Neuro Ophthalmology]							
G-	Illuminated Perimete	TOPCON/SBP-1000	--		1987/88	GC,	₹3,018,000	
G-	Eye Fundus Camera	TOPCON/TRC-50VT	--		1987/88	GC,	₹3,704,000	
G-	Applanation Tonometer	KOWA/HA-1	--		1987/88	GC,	₹174,000	
	[Neuro Oology]							
G-	Impedance Audiometer	DANA/40	AG6283		1987/88	GC, A	₹1,111,000	03/1997, repaired by BMED.
G-	Evoked Response A. meter	DANA/9	--		1987/88	NW,	₹3,473,000	
G-	Audioneter	DANA/120	--		1987/88	NW,	₹2,167,000	Awaiting for spare parts.

97-0-22-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Nuclear Medicine

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Deep Freezer	SANYO/HDF-440	8071004		1989	GC, A	¥530,000	
G-	Table-Top Autoclave	SANYO/MAC-1200	000242		1988	GC, A	¥152,000	
G-	pH Meter	HORIBA/F-8	706028		1988	GC, A	¥200,000	
G-	Microscope	OLYMPUS/BRT-312	230358		1988	GC, A	¥486,000	
G-	Hematocrit Centrifuge	KUBOTA/KH-12005	L70403		1988	GC, A	¥229,000	
G-	Magnetic Mixer	YAMATO/HD-21	232		1988	GC, A	¥51,000	
G-	Headlone	SHIMADZU/SET-031	502-00212		1989	GC, A	¥42,570,000	03/1997, repaired by manufacturer.
S-	Gamma Camera	SIEMENS/	--		13/06/89	GC, A		
S-	Gamma Camera Spect	SIEMENS/	--		13/06/89	GC, A		
S-	β/γ Exposure Rate meter	REMI/	--		26/11/94	GC, A		
S-	Dose Calibrator	RADX/	--		12/89	GC, A		
S-	Dose Calibrator	RADX/	--		12/89	GC, A		
S-	Gamma Counter	N. INTERPRISE/	--		13/06/89	GC, A		
S-	G.M. Survey Meter	--	--		02/12/88	GC, A		
S-	G.M. Survey Meter	--	--		02/12/88	GC, A		
S-	G.M. Survey Meter	--	--		02/12/88	GC, A		
S-	G.M. Survey Meter	--	--		02/12/88	GC, A		
S-	Gamma Zone Monitor	ECIL/	--		10/05/94	GC, A		
S-	Gamma Zone Monitor	ECIL/	--		10/05/94	GC, A		
S-	Gamma Zone Monitor	ECIL/	--		10/05/94	GC, A		
S-	Gamma Zone Monitor	ECIL/	--		10/05/94	GC, A		
S-	Gamma Ray Spectrometer	ECIL/	--		14/12/94	GC, A		
S-	Hand Fuss Monitor	BERTHODE/	--		01/90	GC, A		
S-	NE Incubator	TEMPO/	--		27/06/91	GC, A		
S-	Shaker Bath	TEMPO/	--			GC, A		
S-	Automatic TLC Analyzer	--	--		04/90	GC, A		
G-	X-ray Film Processor	AGFA/CURIX-60	--		1988	GC, A		
G-	X-ray Film Processor	NISHINOTO/ECHOMAT	--		1988	NY,	¥2,200,000	Awaiting for spare parts.

8-0-19-0

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Pathology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Cyte Centrifuge	SAKURA/CF-12D	4807179		1988/89	GC,	₹495,000	
G-	Centrifuge	KUBOTA/KS-8000	130341		1987/88	GC, A	₹631,000	
G-	Microscope	OLYMPUS/BH2	230341		1987/88	GC,	₹368,000	
G-	Lab. Microscope	OLYMPUS/BH2	222565		1987/88	GC,	₹368,000	
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC, A	₹77,000	
G-	Magnetic Mixer	YAMATO/MD-21	232		1987/88	GC,	₹62,000	
	[Room No.106]							
G-	Microscope	OLYMPUS/BH2	230349		1987/88	GC, A	₹368,000	
G-	Microscope	OLYMPUS/BH2	230341		1987/88	GC, A	₹368,000	
G-	Microscope	OLYMPUS/BH2	230338		1987/88	GC, A	₹368,000	
G-	Microscope	OLYMPUS/BH2	230364		1987/88	GC, A	₹368,000	
G-	Microscope	OLYMPUS/BH2	230347		1987/88	GC, A	₹368,000	
G-	Phase Contrast Microscope	OLYMPUS/BHS-313	201538		1987/88	GC, A	₹2,002,000	
G-	Deep Freezer	SANYO/HDF-790AT	7080849		1987/88	GC, A	₹2,223,000	
G-	Centrifuge	KUBOTA/KA-2200	H51584		1987/88	GC,	₹160,000	
G-	Centrifuge	KUBOTA/KA-2200	H51582		1987/88	GC,	₹160,000	
G-	Centrifuge	KUBOTA/KR-1500	L50292		1987/88	GC, A	₹346,000	
G-	pH Meter	HORIBA/F-BAT	706022		1987/88	GC,	₹421,000	
G-	Fume Hood	YAMATO/MS-70	233022		1987/88	GC, A		
G-	Ultra Processor	LKB/2189-050	0205		1987/88	GC, A	₹7,656,000	
	[Room No.109]							
S-	Criostat	LEITZ/LAUDA	1720			NW,		
S-	Criostat	Reichert-Jung/--	--			GC, A		
S-	Autocut with Microscope	Reichert-Jung/--	--			GC, A		
S-	Microtome	Reichert-Jung/--	--			GC, A		
S-	Microtome	Reichert-Jung/2530	1512			GC, A		
S-	Microtome	Reichert-Jung/2030	210098			GC, A		

List of Equipment as of 1997

S. G. P. G. I., Lucknow

LOCATION: Pathology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
S-	MicroLome	Reichert-Jung/2030	--			GC, A		
S-	MicroLome	LEITZ/1512	2527			GC, A		
S-	Tissue Processor	SIPCON/SP-30	6257			GC, A		
G-	Natural Oven	EYELA/NDO-300	10771180		1987/88	NW,	Y137,000	Being repaired by BHED.
G-	MicroLome Knife Sharpner	SAKURA/MN-72	4706221		1987/88	WC, A	Y993,000	
G-	Microscope	NIKON/FX	61182		1988/89	JC,	Y4,849,000	
G-	Large Sector Microtome	SAKURA/MN-72	4706221		1987/88	GC,	Y993,000	
G-	Tissue Processor	SAKURA/RH-125P	4706081		1987/88	GC, A	Y929,000	
S-	Tissue Processor	CITADEL/2000	--			GC, A		
G-	Slide Cleaner	SAKURA/VF-5	4706206		1988/89	GC,	Y84,000	
G-	Slide Cleaner	SAKURA/VF-5	4706207		1988/89	GC,	Y84,000	
G-	Drying Sterilizer	YAMATO/SH-62	--		1987/88	GC, A	Y183,000	
G-	Touch Mixer	YAMATO/MT-51	232		1987/88	GC,	Y77,000	
G-	Magnetic Mixer	YAMATO/MD-41	232		1987/88	GC, A	Y63,000	
G-	Heating Block	YAMATO/HF-41	230		1987/88	GC, A	Y114,000	
G-	Homogenizer	YAMATO/HL-21	218008		1987/88	GC,	Y309,000	
G-	Microscope	OLYMPUS/BH2	236170		1987/88	GC,	Y368,000	
G-	Electronic Balance	A&D/FX-320	4701006		1987/88	GC, A	Y168,000	
	[Room No. 110]							
G-	Auto. Staining Machine	SAKURA/DRS-60A	4706112		1988/89	GC, A	Y2,510,000	
G-	Microscope	OLYMPUS/BH2	230330		1987/88	GC, A	Y368,000	
G-	Microscope	OLYMPUS/BH2	226169		1987/88	GC, A	Y368,000	
	[Room No. 202]							
G-	Liquid Chromatograph	SHIMADZU/--	35510MS		1987/88	WC,		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Pathology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Room No. 203]							
G-	Vacuum Pump	ShinkuKoxi/GVD-050A	5909198		1987/88	GC,	¥117,000	
G-	Microwave Oven	SANYO/EM-2510	324780065		1988/89	GC,	¥98,000	
G-	Electronic Balance	A&D/FX-320	5100681		1987/88	GC,	¥168,000	
G-	Microscope	OLYMPUS/BHT-112	00430		1987/88	GC,	¥586,000	
G-	Water Still	YAMATO/WG-75	--		1987/88	NW,	¥1,291,000	
G-	Water Bath	SHIMADZU/TB-65	8147		1987/88	GC,		
G-	Homogenizer	N.Seiki/AM-9	81036		1987/88	GC,		
S-	Centrifuge	REMI/RM12C	--			GC, A		
S-	Colorimeter	/112	--			GC, A		
S-	Flame Photometer	--	127			GC,		
S-	Flame Photometer	--	1581			GC,		
	[Room No. 206]							
G-	Table-top Autoclave	SANYO/MAC-1200	000254		1987/88	GC,	¥152,000	
G-	Ice Making Machine	SANYO/SIM-E61	700065		1987/88	NW,	¥267,000	Awaiting for spare parts.
G-	Centrifuge	KUBOTA/KR-1500	150294		1987/88	GC, A	¥346,000	
G-	Centrifuge	KUBOTA/KS-8000	140345		1987/88	GC, A	¥631,000	
G-	Centrifuge	KUBOTA/KS-8000	140346		1987/88	GC, A	¥631,000	
G-	Touch Mixer	YAMATO/MT-31	232		1987/88	GC,	¥39,000	
G-	pH Meter	HORIBA/F-8	706017		1987/88	GC, A	¥200,000	
G-	Blood Gas Analyzer	AVL/945	1811		1987/88	NW,	¥10,900,000	Replaced for new equipment.
G-	Ca/Mg Analyzer	Jookoo/30-20	645017		1987/88	NW,	¥1,093,000	
G-	Magnetic Stirrer	YAMATO/M-65	229		1987/88	GC, A	¥109,000	
G-	Spectrophotometer	HITACHI/U-1100	6316045		1988/89	GC, A	¥1,650,000	
G-	Visible Spectrophotometer	HITACHI/150-20	6241007		1987/88	GC,	¥2,120,000	
G-	Spectrophotometer	SHIMADZU/UV-150C	2BK01868		1987/88	GC, A	¥1,312,000	
T-	Fluor. Spectrophotometer	HITACHI/F-4010	0463-007		1992	GC, A	¥11,600,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Pathology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Auto Osmometer	K. DAIICHI/OH-6010	808101		1987/88	GC, A	¥2,300,000	
G-	Platelet AG Meter	K. DAIICHI/PA-3220	80801		1987/88	GC,	¥3,968,000	
S-	Electrolyte Analyzer	AVL/986S	A61062			GC, A		
S-	Water Purification System	Hilli/RO-120	--			GC, A		
G-	Water Bath	YAMATO/BT-47	228003		1987/88	GC, A	¥476,000	
G-	Water Bath	EYELA/SB-24	10871287		1987/88	GC, A		
S-	Flame Photometer	--	585			NW,		
S-	Flame Photometer	--	580			NW,		
S-	Flame Photometer	--	1586			NW,		
	[Room No. 207]							
G-	Water Still	YAMATO/WL-21	221004		1987/88	GC, A	¥291,000	
G-	Magnetic Stirrer	YAMATO/MD-21	232		1987/88	GC, A	¥62,000	
G-	Centrifuge	KUBOTA/KS-8000	L30342		1987/88	GC, A	¥631,000	
G-	Ultrasonic Pipette Washer	AIWA/AV-100CR	1010323		1987/88	GC, A	¥276,000	
G-	Ice Making Machine	SANYO/SIM-E61	910021		1987/88	NW,	¥267,000	Awaiting for spare parts.
	[Room No. 209]							
G-	Laboratory Washer	YAMATO/AW-62	225007		1987/88	GC, A	¥2,056,000	
G-	Bottle Washer	YAMATO/AW-82	231009		1987/88	GC, A	¥3,014,000	
G-	Autoclave	YAMATO/SH-51	1412540		1987/88	GC, A	¥772,000	
G-	Drying Sterilizer	YAMATO/SH-62	233028		1987/88	GC, A	¥185,000	
G-	Centrifuge	KUBOTA/KH-1200S	170402		1987/88	NW,	¥229,000	
G-	Centrifuge	KUBOTA/KH-1200S	170407		1987/88	NW,	¥229,000	
G-	Centrifuge	KUBOTA/KS-8000	L30339		1987/88	GC, A	¥631,000	01/05/97, repaired by BMED.
G-	Centrifuge	KUBOTA/KS-8000	L30339		1987/88	GC, A	¥631,000	01/05/97, repaired by BMED.
G-	Centrifuge	KUBOTA/KA-2200	M57576		1988/89	GC, A	¥160,000	
G-	Coagulation Profiler	BIO-DATA/CP-8	--		1987/88	NW,		
T-	Refrigerated Centrifuge	HITACHI/SCP-85G	62031		1991/92	GC, A	¥22,750,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Pathology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Water Bath	EYELA/SB-24	10871288		1987/88	GC, A		
G-	Deep Freezer	SANYO/MDF-440	7080831		1987/88	GC, A	¥530,000	
G-	Microscope	OLYMPUS/BH2	010331		1987/88	GC, A	¥368,000	
G-	Microscope	OLYMPUS/BHT-112	010331		1987/88	GC, A	¥586,000	
G-	Spectrophotometer	SHIMADZU/UV-160C	1256662		1987/88	GC, A	¥1,312,000	
G-	Electronic Balance	A&D/ER-182A	4701005		1987/88	GC, A	¥330,000	
G-	Diff. Leukocyte Counter	KAYAGAKI/HDT-120	30372		1987/88	GC,	¥106,000	
G-	Electrophoresis	JOOKOO/JA-SET	282058		1987/88	GC,	¥466,000	
G-	Electrophoresis	JOOKOO/JA-SET	1014017		1987/88	GC,	¥466,000	
G-	pH Meter	HORIBA/F-B	706024		1987/88	GC, A	¥200,000	
G-	Centrifuge	KUBOTA/KR-1500	L50293		1988/89	GC, A	¥346,000	
G-	Magnnatic Stirrer	YAMATO/MH-61	230		1987/88	GC, A	¥67,000	
G-	Water Bath	YAMATO/BT-47	228017		1987/88	GC,	¥537,000	
G-	Touch Mixer	YAMATO/MT-31	230		1987/88	GC,	¥39,000	
G-	Diff. Leukocyte Counter	KAYAGAKI/HDT-120	30357		1987/88	GC,	¥106,000	
G-	Platelet AG Meter	K. DAIICHI/PA-3220	702002		1987/88	GC, A	¥3,968,000	
	[Room No. 214]							
G-	Centrifuge	KUBOTA/KS-8000	L30338		1987/88	GC,	¥631,000	
G-	Blood Cell Analyzer	N. KONDEN/NEK-4500A	00012		1987/88	NW,	¥4,336,000	
G-	Blood Cell Analyzer	SYSMEX/E-3000	E-1028		1988/89	NW,	¥4,336,000	
G-	Blood Cell Analyzer	SYSMEX/F-800	A-1448		1988/89	NW,	¥2,440,000	
G-	Microscope	OLYMPUS/BHT-112	011136		1987/88	GC, A	¥586,000	
G-	Microscope	OLYMPUS/BHT-112	012485		1987/88	GC, A	¥586,000	
G-	Microscope	OLYMPUS/BHT-112	011172		1987/88	GC, A	¥586,000	
G-	Microscope	OLYMPUS/BHT-112	010297		1987/88	GC, A	¥585,000	
G-	Touch Mixer	YAMATO/MT-31	232		1987/88	GC,	¥39,000	
G-	Shaker	KAYAGAKI/KR-3N	29576		1987/88	GC,	¥146,000	
G-	Auto Chemical Analyzer	TECHNICON/SRA-2000	--		1988/89	NW,	¥78,371,000	Going to be replaced.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Pathology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Auto Chemical Analyzer	TECHNICON/RA-1000	--		1987/88	GC, A	₹25,039,000	Under AMC.
S-	Auto Chemical Analyzer	TECHNICON/RA-500	ED29788915		1987/88	GC, A		Under AMC.
S-	Semiauto Analyzer	SEAC/CH-100	91066			GC, A		
G-	Electrolyte Analyzer	OLYMPUS/NAKL- II	510132		1987/88	WC, C	₹3,163,000	Reagents not available.
G-	UV-V Spectrophotometer	SHIMADZU/UV-160A	28K01868		1987/88	NW,	₹1,312,000	
G-	Microscope	OLYMPUS/BH2	--		1987/88	GC,	₹368,000	
G-	Electronic Balance	A&D/ER-182A	4701003		1987/88	GC, A	₹330,000	
	[Coagulation Lab.]							
G-	Water Bath	EYELA/SB-21	10871287		1987/88	GC, A		
G-	Water Bath	EYELA/SB-21	10871288		1987/88	GC, A		
G-	Magnetic Mixer	K. DAIICHI/CANG	--		1987/88	GC, A		
G-	Auto Smear	SAKURA/CF-120	--		1987/88	GC, A		
	[HPLC Room]							
T-	Refrigerated Centrifuge	KUBOTA/7800	010065		1992	GC, A	₹3,235,000	
S-	Centrifuge	REMI/R8C	--		1992	GC, A		06/03/97, repaired by BMED.
T-	HPLC	SHIMADZU/LC-9A	C20022905304		1992	GC, A	₹8,430,000	
T-	HPLC	SHIMADZU/LC-9A	C20022905289		1992	GC, A	₹8,430,000	
T-	Medical Refrigerator	SANYO/HPR-510R	20501285		1992	GC, A	₹286,000	
	[EMS Room]							
G-	Centrifuge	KUBOTA/KR-1500	L50292		1987/88	GC, B	₹346,000	
G-	Water Bath	YAMATO/BT-47	228018		1987/88	GC, B	₹537,000	
G-	Ultra Processor	LKB/2189-050	0201		1987/88	GC, B	₹7,656,000	
G-	Fume Hood	YAMATO/MS-70	233022		1987/88	GC, B	₹347,000	
G-	Water Still	YAMATO/WL-21	221020		1987/88	GC, B	₹291,000	
S-	SEM Coating System	BIORAD/SC-502	02000			GC, B		

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Pathology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Ultra Microtome	LKB/2108-022	2059		1987/88	GC, B	¥8,448,000	
G-	Microscope	OLYMPUS/BH2	012309		1987/88	GC, B	¥368,000	
S-	Knife Marker	Reichert-Jung/705202	406911			GC, B		
G-	Ultra Low Deep Freezer	SANYO/MDF-381AT	7080832		1987/88	GC, A	¥1,600,000	
	[Cold Room]							
G-	Autoclave	YAMATO/SM-51	232004		1987/88	GC, A		
T-	Ultra Low Deep Freezer	SANYO/MDF-382AT	20501286		1992	GC, A	¥660,000	
W-	Ultra Low Deep Freezer	LABCONKO/LL125F	--			GC, A		
T-	A.A. Spectrophotometer	SHIMADZU/AA-680	29020832		1995	GC, A	¥11,600,000	
T-	Flameless Atomiser	SHIMADZU/--	29090429		1996	GC, A		
G-	Centrifuge	KUBOTA/KS-8000	--		1987/88	GC, A	¥631,000	
T-	Freeze Dry System	ASAHI/	--		1992	GC, A	¥3,652,000	
T-	Freeze Dry System	ASAHI/	--		1992	GC, A	¥3,652,000	
S-	Incubator	YORCO/YS-1341	9160535			GC, A		213/02/97, repaired by BHED.
S-	Incubator	YORCC/YS-1348	9160407			GC, A		213/02/97, repaired by BHED.
	[Autopsy]							
G-	Morgue Refrigerator	EBARA/XY-2	00057		1987/88	NW,	¥2,305,000	

123-10-26-1

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Radiology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Bucky R.G & Planigraphy	SHIMADZU/HD150B-30	0162605910	1/	1987/88	GC, A	¥27,600,000	
G-	Pediatric X-ray Apparatus	SHIMADZU/HD150B-30	0161176402	1/	1987/88	GC, A	¥31,450,000	
G-	RC Gastroenterology X-ray	SHIMADZU/XHD150B-30	50106292A	1/	1987/88	GC, A	¥45,800,000	03/97, repaired by manufacturer.
G-	Computed Radiographic Sys.	FUJI/FCR-901	7640169	3/	1987/88	GC, A	¥164,310,000	04/97, repaired by manufacturer.
G-	Mammography X-ray Appls.	SHIMADZU/HD150E-30	77013	1/	1987/88	GC, A	¥10,860,000	
G-	Myelography Apparatus	SHIMADZU/HD150E-30	0162542103	1/	1987/88	GC, A	¥31,480,000	
G-	BP C Angiography with DSA	SHIMADZU/DAR-200	--	1/	1987/88	NW,	¥68,650,000	Going to be condemned.
G-	BP C Angiography with DSA	SHIMADZU/DAR-1200	--	1/	1987/88	WC, A	¥106,390,000	Under repair.
G-	X-ray Apparatus for Skull	SHIMADZU/HD150B-30	610027G013E	1/	1987/88	GC, A	¥32,000,000	
G-	Whole Body CT Scanner	HITACHI/CT-W400-2D	B13052704	1/	1987/88	GC, A	¥94,113,000	
T-	Console & O. Disk Unit	HITACHI/CT-IDC-5, CT-OD-1C	--	1/	1992	NW,	¥25,900,000	
G-	Mobile X-ray Apparatus	SHIMADZU/MC125L-30	--	1/	1987/88	NW,	¥2,800,000	Under repair.
G-	Mobile X-ray Apparatus	SHIMADZU/MC125L-30	--	1/	1987/88	GC, A	¥2,800,000	
G-	Ultrasound Scanner	TOSHIBA/SAL-77A	E7562361	3/	1987/88	GC, A	¥17,764,000	
G-	P. Ultrasound Scanner	GE/Yokogawa/RT3000	ARC078BE	3/	1987/88	GC, A	¥5,189,000	
G-	P. Ultrasound Scanner	GE/Yokogawa/RT3000	ARC079BE	3/	1987/88	GC, A	¥5,189,000	
G-	Ultrasound Scanner	TOSHIBA/SSA-100A	E7562300	3/	1987/88	GC, A	¥22,859,000	
G-	Ultrasound Scanner	TOSHIBA/SSA-100A	E7562301	3/	1987/88	NW,	¥12,184,000	Going to be condemned.
G-	X-ray Film Processor	NISHIMOTO/Supar-90	--		1987/88	NW,	¥2,200,000	Awaiting for spare parts.
G-	X-ray Film Processor	NISHIMOTO/Ecomat 2400	--		1987/88	NW,		
S-	Bone Densitometer	/DR4500A	--	1/	1996	GC, A		
S-	MRI	SIEMENS/	--	1/	1989	GC, A		
T-	Video Memory	SHIMADZU/MR512F	--		1996	GC,		
S-	Plain X-ray Unit	SIEMENS/5205	01329	1/		GC, A		10/11/96, repaired by BMED.

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Radiotherapy

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
G-	Linear Accelerator	MITSUBISHI/ML-20MDX	9546233	1/	1988/89	WC,	¥189,380,000	Under maintenance.
T-	Beamduct for Above	MITSUBISGI/RN251869-G01	--	1/	1996	GC, A	¥2,300,000	
G-	After Loading Bracky Thpy.	SHIMADZU/Nalsron	0161086001	1/	1988/89	GC, A	¥45,810,000	
G-	Teletherapy Simulator	SHIMADZU/SAT-10	01611A2503	1/	1988/89	GC, A	¥32,000,000	11/1996, repaired by manufacturer
S-	Co Radiotherapy Unit	Theratron/780C	--	1/		GC, A		
G-	TLD Dosimeter	BECTREEN/2800	--		1987/88	GC,	¥23,388,000	

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List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Surgical Gastroenterology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Operation Theatre]							
G-	Suction Machine	ASAHI/700	M831	3/	1988/89	GC,	¥183,000	
G-	Suction Machine	ASAHI/700	--	3/	1988/89	GC,	¥183,000	
G-	Operating Table	HIZUHO/SPL-330N	80562242	4/	1987/88	GC,	¥1,218,000	
G-	Operating Table	HIZUHO/SPL-330N	--	4/	1987/88	GC,	¥1,218,000	
G-	Operating Light	DAIKYO/9010JHS	52A110	4/	1987/88	GC,	¥1,911,000	
G-	Operating Light	DAIKYO/9010JHS	62-H024	4/	1987/88	GC,	¥1,911,000	
G-	Electrosurgical Unit	ACOMA/ACUTOR-S	3285	1/	1987/88	GC,	¥1,414,000	
G-	Video Camera	JVC/KV-M280	162500093		1988/89	GC,		
G-	Video Monitor	JVC/VHR-190SU	10360255		1988/89	GC,		
G-	Video Cassette Recorder	JVC/HR-D257MS	123L1988		1988/89	GC,		
G-	Choledocho Fiberscope	OLYMPUS/CHF-10	--		1988/89	GC,		
G-	Hand Scrub Unit	TOYODA/TSS-16UF	505		1988/89	GC,		
G-	Hand Scrub Unit	TOYODA/TSS-16UF	502		1988/89	GC,		
G-	Microwave Oven	SANYO/EM-2510	2866106949		1988/89	GC,	¥98,000	
G-	Tissue Culture Incubator	SANYO/MIR-260	8070948		1988/89	GC,	¥200,000	
G-	Tissue Culture Incubator	SANYO/MIR-260	8070949		1988/89	GC,	¥200,000	
G-	LASER Yag Surgical Unit	Cooper/8000	6221	1/	1988/89	GC, C	¥19,715,000	
G-	Anaesthesia Apparatus	ACOMA/PH-3F	14844	1/	1987/88	GC,	¥1,697,000	
	[Ward]							
G-	1ch ECG	N. KOHDEN/ECG-6551	00148	3/BF	1987/88	GC,	¥245,000	
G-	NIBP	N. KOHDEN/MPV-7201	A008	3/	1987/88	GC,	¥425,000	
G-	Bedpan Sanitizer	SANKO/SS-8	--		1987/88	GC,	¥473,000	

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List of Equipment as of 1997
S.G.P.G.I., Lucknow

LOCATION: Blood Transfusion

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	INSTALLATION	STATUS	PRICE	REMARKS
	[Transfusion Ward]							
G-	Electronic Balance	A&D/FX-320	5101034		1987/88	NW,	¥168,000	Awaiting for spare parts.
G-	Incubator	SANYO/MIR-260	8070955		1988/89	GC, A	¥200,000	
S-	Cell Washer	DUPONT/2	8801113			GC, A		
	[HIV Lab.]							
G-	Sara Washer	Biotec/--	20702		1987/88	NW,		
W-	Eliza Washer	Labysyatem/3140	--			GC, A		
S-	Centrifuge	REMI/R8C	3771			GC, A		04/04/97, repaired by BMED.
S-	Centrifuge	REMI/R8C	--			GC, A		
	[Component Lab.]							
S-	Large Scale Centrifuge	SORVALL/RC3C	--			GC, A		
G-	Refrigerated Centrifuge	HITACHI/CR7B3	88046		1987/88	GC, A		
W-	Refrigerated Centrifuge	Cryofuge/60001	229989			GC, A		
W-	Refrigerated Centrifuge	Cryofuge/60001	231602			GC, A		
S-	Gamma Cell Counter	Nordion/1000E	--			GC, A		
G-	Deep Freezer	SANYO/MDF-440	8070993		1987/88	GC, A	¥530,000	
G-	Deep Freezer	SANYO/MDF-440	8071000		1987/88	GC, A	¥530,000	
G-	Deep Freezer	SANYO/MDF-381AT	8070985		1987/88	GC, A	¥1,600,000	
W-	Deep Freezer	Jouan/VX-350	39512030			GC, A		
	[P.G. Lab.]							
G-	Centrifuge	KUBOTA/KS-8000	L30336		1987/88	GC, A	¥631,000	
S-	Centrifuge	REMI/R8C	--			GC, A		
G-	Microscope	OLYMPUS/BH2	0124477		1987/88	GC, A	¥368,000	
G-	Microscope	OLYMPUS/BH2	010208		1987/88	GC, A	¥368,000	
G-	Water Still	YANATO/WL-21	22700		1988	NW,	¥29,1000	Awaiting for spare parts.
G-	Laboratory Washer	YANATO/AW-82	231002		1988	NW,	¥3,014,000	Awaiting for spare parts.

12-0-6-4

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Urology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Operation Theatre]							
G-	Scrub Unit ¹	TOYODA/TSS-1506UP	501		1988/89	GC,	¥1,500,000	
G-	Scrub Unit	TOYODA/TSS-1506UP	503		1988/89	GC,	¥1,500,000	
G-	Scrub Unit	TOYODA/TSS-1506UP	507		1988/89	GC,	¥1,500,000	
G-	Anaesthesia Apparatus	ACOMA/KMA-1300F II	1268	1/	1987/88	GC,	¥4,731,000	
G-	Operating Light	DAIKYO/9010JHS	52A116	4/	1987/88	GC,	¥1,911,000	
G-	Operating Light	DAIKYO/9010JHS	62A109	4/	1987/88	GC,	¥1,911,000	
G-	Operating Light	DAIKYO/52B441	62A109	4/	1987/88	GC,		
G-	Operating Table	MIZUHO/SPC-330N	80562240	4/	1987/88	GC,	¥1,218,000	
G-	Operating Table	MIZUHO/MOT-5500	80778180	4/	1987/88	GC,	¥2,411,000	
G-	Electrosurgical Unit	ACOMA/ACUTOR-S	3284	3/	1987/88	GC,	¥1,414,000	
G-	Suction Unit	ASAHI/700	M829	3/	1988/89	GC,	¥183,000	
G-	Operating Table for Urgy.	MIZUHO/EM	80470139	4/	1987/88	GC,	¥2,465,000	
G-	Magnification Loupe	STORTZ/	3178		1987/88	GC,	¥173,000	
G-	Colour Video Camera	JVC/KY-M2800	07150015		1988/89	GC,		
G-	TV Video	JVC/HR-D2257MS	123L1989		1988/89	GC,		
	[Station]							
G-	Incubator	SANYO/MIR-260	8070850		1988/89	GC,	¥200,000	
G-	Magnification Loupe	STORTZ/	27015B		1987/88	GC,	¥173,000	
G-	Magnification Loupe	STORTZ/	27092AM		1987/88	GC,	¥173,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000250		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000245		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000258		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000252		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000255		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000249		1987/88	GC,	¥152,000	
G-	Table-top Autoclave	SANYO/MAC-1200	000230		1987/88	GC,	¥152,000	

List of Equipment as of 1997

S.G.P.G.I., Lucknow

LOCATION: Urology

CODE NO.	NAME OF EQUIPMENT	MANUFACTURER/MODEL	SERIAL NO.	GROUP/TYPE	DATE OF INST.	STATUS	PRICE	REMARKS
	[Ward]							
G-	Patient Monitor	N. KOHDEN/DEC-8108K	00069	3/BF	1987/88	GC,	¥1,460,000	
G-	Recorder	N. KOHDEN/WT811PA	--		1987/88	GC,	¥416,000	
G-	Defibrillator	N. KOHDEN/TEC-5200B	21375	1/CF	1987/88	NW,	¥1,230,000	Spare parts unavailable.
G-	Suction Unit	ASAHI/700	M837	3/	1988/89	GC,	¥178,000	
G-	Bedpan Sanitizer	SANKO/SS-8	--		1987/88	GC,	¥473,000	Not installed.
G-	Urological X-ray Apparatus	SHIMADZU/HD150-30	0151176304	1/	1987/88	GC, A	¥26,760,000	13/01/97, repaired by DMED.
G-	M.C-Arm Image Intensifier	SHIMADZU/WHA-10T	--	1/	1987/88	GC, A	¥3,400,000	

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7 延長にかかる討議議事録 (R/D)

THE RECORD OF DISCUSSIONS
ON THE EXTENTION OF THE DURATION
OF THE JAPANESE TECHNICAL COOPERATION
FOR THE SANJAY GANDHI POST-GRADUATE INSTITUTE
OF MEDICAL SCIENCES PROJECT

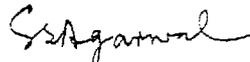
With regard to the extension of the duration of the Japanese technical cooperation for the Sanjay Gandhi Post-Graduate Institute of Medical Sciences Project (hereinafter referred to as "the Project"), based on the Record of Discussions signed in Delhi on February 15, 1990, Mr. Minoru Sasago, Resident Representative of the Japan International Cooperation Agency (hereinafter referred to as "JICA") in India, held a series of discussions with the Indian authorities concerned. The discussions were in accordance with the results of the joint evaluation by the Japanese and Indian team conducted in Lucknow, India on December 17, 1994.

As a result of the discussions, both sides agreed to recommend to their respective Governments the implementation of the extension of the duration of Japanese technical cooperation for the Project along the lines described in the document attached hereto.

June 30, 1995.



Minoru Sasago
Resident Representative
JICA India Office



S.S. Agarwal
Director
Sanjay Gandhi Post-Graduate
Institute of Medical Sciences



Kanwal Dass
Under Secretary
Ministry of Health & Family
Welfare


30/6/95

D.N. Narasimha Raju
Deputy Secretary
Ministry of Finance
Department of Economic Affairs

ATTACHED DOCUMENT

1. The duration of technical cooperation for the Project will be extended for two years from August 1, 1995.
2. The specific activities during the extended duration are described in ANNEX.
3. The Japanese input for the Project will include:
 - (1) dispatching a team leader, a coordinator and experts in the fields described in the ANNEX;
 - (2) provision of spare parts for the previously provided equipment; and
 - (3) training of Indian personnel in Japan.
4. The Indian Government will ensure:
 - (1) augmentation of budgetary allocation and expenditures for operation and maintenance of the equipment provided by JICA;
 - (2) assignment of full-time staff members for the Biomedical Engineering Division; and
 - (3) improvement of managerial efficiency of SGPGI with regard to financial execution and custom clearance procedure.
5. All matters other than those mentioned above during the extended duration will be treated in the same manner as prescribed in the articles of the Record of Discussions signed in Delhi on February 15, 1990.

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SSP

ANNEX

SPECIFIC ACTIVITIES

1. Virology:
 - (1) Isolation, identification and molecular epidemiological examinations of enteroviruses prevalent in India.
 - (2) Establishment of laboratory diagnosis of persistently infectious viruses, e.g., cytomegalovirus.
 - (3) Establishment of laboratory diagnosis and molecular epidemiological studies of HIV.

2. Neurosurgery:
 - (1) Improvement on fundamental manipulation of microsurgical instruments (head frame, brain retractor, silver dissector, clips etc.,)
 - (2) Surgical treatment for large intracranial aneurysms with and without bypass surgery.
 - (3) Surgical treatment for intracranial arteriovenous malformations with and without preoperative endovascular embolization.
 - (4) Bypass surgery for cerebral ischemic disease.
 - (5) Carotid endoarterectomy.

3. Endocrinology:
 - (1) Field work for endemic goiter due to iodine deficiency.
 - (2) Study of the relationship between iodine deficiency and breast fibroadenosis.
 - (3) Establishment of an endocrine surgery research laboratory for molecular and morphological studies.

4. Diagnostic Radiology:
 - (1) Improvement on production of metallic stent and its clinical application.
 - (2) Improvement on ultra-super selective catheterization for interventional radiology.
 - (3) Demonstration of transjugular intrahepatic portosystemic shunt for portal hypertension.

5. Medical information technology (Transfer of concept only):
 - (1) Construction of the hospital information system (HIS) and local area network system.
 - (2) Development of a computerized medical record system.
 - (3) Development of a computer-aided medical decision making system.
 - (4) Development of a computer-aided medical image diagnostic system and a medical image data base system.

6. Cardiovascular Surgery:

Microvascular surgery in animals using equipment which was provided by JICA.

7. Bio-medical Engineering:

Improvement of skills pertaining to repair, inspection and maintenance of medical equipment.

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