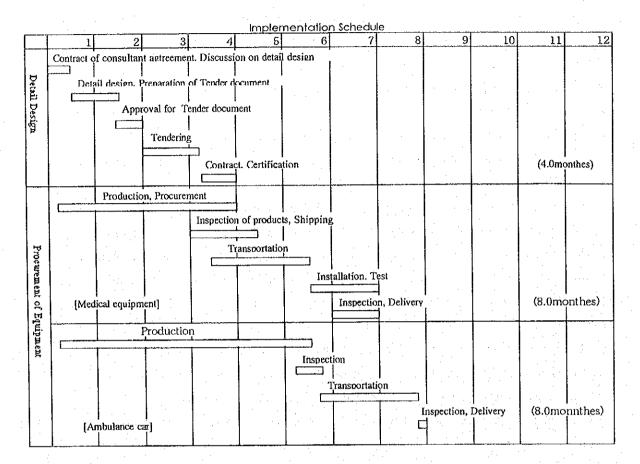
2) Progress Schedule



3-1-7 Obligations of recipient country

Work to be carried out by the Kyrgyzstan side is as follows;

- 1. Provision of every necessary facility for the unloading, customs clearance and domestic transport of equipment imported under the project.
- 2. Exempting Japanese nationals to stay in Kyrgyz to engage in tasks related to the implementation of this project from customs and taxes
- 3. Provision of every necessary facility and security to Japanese nationals to stay in Kyrgyz to engage in transportation and installation of equipment necessary for the implementation of this project.
- 4. Payment of the following charges to a Japanese bank to deal in foreign exchanges under the bank arrangement

Bank arrangement charges

Bank authorization charges

5. Allocation of budgets (including costs of maintenance and management of the equipment procured with the grant aid cooperation of the Government of Japan) and staff members which are necessary for the effective implementation of this project.

- 6. Proper, effective maintenance and management procured with the grant aid cooperation of the Government of Japan and reporting the status of use, maintenance and management of the equipment to the Government of Japan, and also allocation of budgets and staffs necessary for their operation, maintenance and management.
- 7. Defrayal of all of the costs which are necessary for the implementation of this project but cannot be covered by the grant aid cooperation of the Government of Japan.

3-1-8 Expenses borne by Government of Kyrgyz

The government of Kyrgyz will be required to contribute about US\$20400.00 (about ¥2,650,000) as the cost of repair of the X-ray rooms, the sterilizer rooms and the operating rooms.

Project Institution	 Amount
3.0 Bishkek Ambulance Center	\$ 530.00
4.0 National Surgical Center	\$ 2,100.00
5.0 Republic Infectious Disease	\$ 8,190,000
Hospital	
6.0 City Hospital No.3 for Children	\$ 8,430.00
7.0 Maternity House No.2	\$ 1,150.00
8.0 Maternity House No.4	 0
Total	\$ 20,400.00

3-2 Operation and Maintenance Plan

3-2-1 Expectant Expenditure

(1) Operation and maintenance cost of the equipment procured under this project

The expectant expenditure of each project institutions including of cost of reagent, consumables and spare parts necessary for the operation / maintenance of the equipment procured under this project are as shown in following table.

Expectant Annual Cost for Operation a		Maintenance	Operation	Total
Bishkek Ambulance Center	¥	1,228,003	12,006,001	13,234,004
	Som	175,429	1,715,143	1,890,572
National Sergical Center	¥	2,270,079	4,605,944	6,876,023
	Som	324,297	657,992	982,289
Republic Onfectious Disease Hospital	¥	867,223	1,174,922	2,042,145
	Som	123,889	167,846	291, 7 35
City Hospital No.3 for Children	¥	1,573,866	1,324,862	2,898,728
	Som	224,838	189,266	414,104
Maternity House No.2	¥	405,384	1,527,862	1,933,246
	Som	57,912	218,266	276,178
Maternity House No.4	¥	693,161	1,273,069	1,966,230
	Som	99,023	181,867	280,890
TOTAL	¥	7,037,716	21,912,660	28,950,376
	Som	1,005,388	3,130,380	4,135,768

The operation cost consists of reagent and consumables and the maintenance cost consists of spare parts mainly.

The expectant expenditure of each project institutions in following 5 years including of cost mentioned above are shown in following tables. The expectant expenditure was estimated based on the following precondition.

- (1) The inflation rate of consumer price sets up with 10% from 1998 to 1999 and with 15% every year since 1999.
- ②There will be no change in the number of beds and staff in each project institution
- (3) There will be no change in the composition of the expenditure since 1998.
- ④Operation cost of equipment procured under the project will be required since 2001 and the maintenance cost of procured equipment (spare parts fee) is also required since 2002.

Name of Institution_BISHKEK_AMBULANCE.CENTER Expectant Expenditure in 1999~2003

(Som)

Cybectall Sypcontine of the System Court of the System of		100	-		000	-		0000		2	2001		8	2002	_	73	2003	-
	10000	88657	0,00	tunour 4	<u>.</u>	G Rafe	Amount	٩	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio (G. Rate
	Autour.	Lyano	O. Mark	SOL OLL	100 00	105 40.	EUV 923 9	٠.	115.0%	ड़ि	100.0% 110.9%	110.9%	8.258,718 100.0% 112.2%	100.0%	112.2%	9,276,930	100.0%	112.3%
EXPENSES	5,475,488	M.	1	0,7/0,700		2000	2 542 557	200.00	10.00	2 044 543	53.6% 108.3%	30%	4 255 167	51.5%	51.5% 107.9%	4,731,833	51.0% 111.2%	111.2%
1 Personnel	3,047,492	55.7%	***************************************	3,10/,441	- 1 - 1 - 1 - 1	103.5%	2,042,037	34.5 % 113.0%	2,0				100000	200	100 101	1011200	10 607, 111 307.	11 20%
2 Social fund		20.3%		1,156,116	20.0% 103.9%	103.9%	1,329,533	20.0% 115.0%	115.0%	1,439,758	19.6% 108.3%	108.3%	1,555,150	15.870	18.870 107.970	12/4/27/2	0/001	0/7-77
		12.2%		737,618	12.8% 110.0%	110.0%	848,261	12.8% 115.0%	115.0%	1,039,790	14.1%	122.6%	1,195,758	14.5%	14.5% [15.0%]	1,5/5,1/2	14.8% 115.0%	13.0%
3-1 Reacent			1,880			: :											1	T
3-2 Consumables	83,000	1.5%	999	91,300		983	104.995			120 744	-		138,856		900.0	159,684	1	T
3-3 X-ray film						3863						***		-				
3-4 Recording paper										64,290		***	13 18 18 18			85,024	1	
3-5 Others	287.562	10.7%	0000	646.318		3000	743,266		300	854,756			696,286	-		1330,415	-	
4 Medicine	66,100	1.2%		72,710	1.3%	110%	83,617	1.3%	115%	96,159	1.3%	115%	110,583	14.5%	115%	127,170	1.4%	115%
5 Meul materials					1			-		-								
6 Medical equipment(New)												-						1
7 Maintenance for equipment	20,600	0.4%		22,660	0.4%	110%	26,059	0.4%	115%	29,968	0.4%	115%	209,892	2.5%	78%	241,376	2.5%	115%
8 Cationary	18,000	1	_	19.800	0.3%	110%	22,770	0.3%	115%	26,186	0.4%	115%	30,113	0.4%	115%	34,630	0.4%	115%
0 Florito nover water [6]	431.400	1.		474.540	8.2%	110%	545,721	8.2%	115%	622,579	8.5%	115%	721,716	8.7%	115%	829,973	8.9%	115%
9-1 Flectric nower	66,600			73,260			84,249		3300	988'96	1		111,419			128,132		
9.2 Heating cooling	275 400			302.940		0000	348,381		****	400,638		***	460 734			529,844		
9-3 Water supply, swage	68,800			75,680			87,032			100,087			115,100			132,365		
9-4 Telephone(Communication Exp.)	20,600		0025	22,660			26,059			29,968		323	34 463		200	39,632		
10 Traffic expenses														-		7000		20.
11 Laundry	109,000	2.0%		119,900	2.1%	110%	137,885	2.1%	115%	158,568	2.2%	115%	182,353	0/7.7	10%	209,700	0,5.7	115%
11-1 Linen												****		***************************************				
11-2 Uniform	71,300			78,430		*****	90,195			103,724			119,282			0.00	+	
11-3 Others	37,700			41,470	-	****	47,691			54,844			63,071			100	-	***************************************
12 Repairing of facilities							***************************************		-			-			1		+	
13 Others														***************************************			+	
7 7																		

									_	-			ŀ				
Martinal materials	670 562 12.2%	12.20%	777 618			848 261			1.039,790	14.1%	123%	1,195,758	14.5%	115%	1,375,122	14.8%	115%
Maintenant maintain	005.00	0.4%	22,600	0.40%		26.059	1		29,968	0.4%	115%	209,892	2.5%	700%	241,376	2.6%	115%
Total	691 162 12 6%	12.6%	3150218	.1 -	110%	874.320	13.2%	115%	1,069,758	14.5%	122%	1,405,650	17.0%	131%	1,616,498	17.4%	115%
Medical materials for project conjuncat	20212	1	2000						64,290	0.9%		73,934	0.9%	115%	85,024	0.9%	115%
Maintenace for money community								-	0	-		175,429	2.1%		201,743	2.2%	115%
Total for smith project equipment									64,290	0.9%	_	249,363	3.0%	388%	286,767	3.1%	115%
No of Medical teams	40		36		-	36			32			28			26		
The of Medical remins																	

5	0	64,290	64,290	
reagem	consumables	rec. paper	Total	

Expectant estimation is based on the results in 1998
 Supposed yearly inflation rate: 10% from 1998 to 1999, 15% since 1999
 Personnel expenses will be decreased according to No. of medical teams

(Som)

Name of Institution_NATIONAL_SURGICAL_CENTER Expectant Expenditure in 1999-2003

	Expectant Expenditure in 1999~2003										•	.00		č	Ş		C	2000	
		,-4	1998		1	1999		Š	2000		2	- }-		7	ŀ	+	1	2	
		Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio (G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate
\vdash	EXPENSES	9.984.000	100.0%		10.982,400		110%	12,629,760	100.0%	115.0%	15,180,319		120.2%	17,781,663	- 1	117.1%	20,448,913		115.0%
† =	Personne	2,780,000	27.8%		3,058,000		110%	3,516,700	27.8%	115%	4,044,205	26.6%	115%	4,650,836	26.2%	115%	5,348,461		115%
, ,	Cocial find	1 015 000	10.2%	-	1.116.500		110%	1,283,975	10.2%	115%	1,476,571	12.0%	115%	1,698,057	9.5%	115%	1,952,765		115%
	Medical materials	800 000 8 0%	8 0%		880.000		110%	1.012.000	8.0%	115%	1,819,895	12.0%	180%	2,092,879	11.8%	115%	2,406,810		115%
	Market Ma	14,000			15 400			17.710		115%	74 997		141%	28,746		115%	33,058		
45	TOTAL	P C			22 000	-		05075		1150	7. K.S. 4.4.7		1753%	765.264		115%	880,054		
+	Z-CONSUITABLES					-		1	-		1000		1150	122 82	-	1150%	57.327		
-	3-3 X-ray film	35,000			38,500			44,275		115%	2	-	0/CTT	2	+	2777	518	-	
,	3-4 Recording paper								***************************************		29,660		***************************************	24,109		115%	98	-	
(,,)	3-5 Others	721 000			793,100			912,065	-	115%	1,048,875		115%	1,206,206		115%	1,387,137	+	
1	4 Medicine	2.269.000	22.7%		2,495,900		110%	2,870,285	22.7%	115%	3,300,828	21.7%	115%	3,795,952	21.3%	115%	4,365,345	_	115%
1.2	S Meal materials	470.000	.1	,	517,000	Ì	110%	594,550	4.7%	115%	683,733	4.5%	1.15%	786,292	4.4%	115%	904,236		115%
-	6 Medical conjument/New)		1					760,486	6.0%		874,559	5.8%	115%	1,005,743	5.7%	115%	1,156,604		115%
1-	7 Maintenance for courpment	200,000	2.0%	3	220,000		110%	253,000	2.0%	115%	290,950	1.9%	115%	658,890	3.7%	226%	757,723		115%
1	8 Stationary																		***************************************
0	Flectric nower, water, Tel.	1.100.000	11.0%		1,210,000		110%	1,391,500	11.0%	115%	1,600,225	10.5%	115%	1,840,259	10.3%	115%	2,116,298		115%
	9-1 Electric power																		
۲	9-2 Heating cooling			1000															
1~	9-3 Water supply, swage																		********************************
۳	9-4 Telephone(Communication Exp.)														***			-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
뜽	10 Traffic expenses	50,000	0.5%	6	55,000		110%	63,250	0.5%	115%	72,738	0.5%	115%	83,648	0.5%	115%	96,195		115%
ᇤ	Laundry												***************************************		-				***************************************
드	11-1 Linen			.00															-
۳	11-2 Uniform														-				-
尸	11-3 Others					_						. !				23			
!#	12 Repairing of facilities	1,000,000	10.0%		1,100,000		110%	1,265,000	10.0%	115%	1,454,750	9.6%	115%	1,672,963	9.4%	115%	1,923,907		115%
¥	13 Others	300,000	3.0%	-	330,000		110%	379,500	3.0%	115%	436,425	2.9%	115%	501,889	2.8%	115%	577,172		115%
- +													-						
ł																			
ڪا	Medical materials	800,000	8%	2.	880,000	8.0%	110%	1,012,000	8.0%	115%	1,819,895	12.0%	180%	2,092,879	11.8%	115%	2,406,810		115%
_	Maintenance for equipment	200,000	2%		220,000	2.0%	110%	253,000	2.0%	115%	290,950	1.9%	115%	658,890	3.7%	226%	757,723		115%

Medical materials	800,000	8%	880,000	×.0%	110%	1,012,000	8.0%	115%	1,819,895	12.0%	180%	2,032,073 11.070 11.370	11.070	113%	7,400,010
Maintenance for equipment	200,000	2%	220,000	2.0%	110%	253,000	2.0%	115%	290,950	1.9%	115%	658,890	3.7%	226%	757,723
Total	1,000,000	10%	1,100,000	10.0%	110%	1,265,000 10.0%	10.0%	115% 2	2,110,845	13.9%	167%	2,751,768	15.5%	130%	3,164,533
Medical materials for project equipment									657,992	4.3%		756,691	4.3%	115%	870,194
Maintenace for project equipment									0			324,297	1.8%		372,942
Total for project equipment									657,992	4.3%		1,080,988	6.1%	164%	1,243,136
						:									

Expectant estimation is based on the results in 1998
 Supposed yearly inflation rate: 10% from 1998 to 1999, 15% since 1999
 Quantity of bed and staff be fixed.

623,702 29,660 rec. paper Total 990123P

Name of Institution_REPLIBLIC INFECTIOUS DISEASE HOSPITAL

Nam	Name of Institution REPUBLIC INFECTIOUS DISEASE HONPILA	EFCTIOUS DE	SEASE H	CSFLA														-	
FYDE	Expectant Expenditure in 1999-2003																	(Som)	
			1998		19	1999		72	2000		2	2001		3(2002		2	2003	
		Amount	<u>.e</u>	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate
	EXPENSES	13,042,300 100.0%	100.0%		14,368,560		110%	16,498,519 100.0%	100.0%	115%	19,141,143	100.0%	116.0%		100.0%	116.8%	25,717,088		115%
1 Perse	Personnel	2,331,000	17.9%		2,564,100		110%	2,948,720	17.9%	115%	3,391,028	17.7%	115%	3,899,682	17.4%	115%	4,484,635		115%
200	Social fund	850 300	6.5%		935,330		110%	1,075,630	6.5%	115%	1,236,974	6.5%	115%	1,422,520	6.4%	115%	1,635,898		115%
	Medical materials	20,000	0.2%		22,000		110%	25,300	0.2%	115%	196,941	1.0%	778%	226,482	1.0%	115%	260,454	1.0%	115%
3-1 R	3-1 Reagent	3,000			3,300			3,795			14,598			16,788			19306		
3-2 C	3-2 Consumables	8,000			8,800		338	10,120			155,381			178,688			205,491		
3-3 X	3-3 X-ray film	0006			006'6		3000	11,385			13,093		2000	15,057		***************************************	17,315		
348	3-4 Recording paper			388			3338				13,869		2000	15,949		I	18,342	-	
3-5 Others	thers														_				
4 Medicine	CIDS	2,700,000	20.7%		2,970,000		110%	3,415,500	20.7%	115%	3,927,825	20.5%	115%	4,516,999	20.2%		5,194,549		115%
S Meal	Meal materials	1,380,000 10.6%			1,518,000		110%	1,745,700	10.6%	115%	2,007,555	10.5%	115%	2,308,688	10.3%		2,654,991		115%
6 Medi	6 Medical coupment(New)	176,300	1.4%		193,930		110%	223,020	1.4%	115%	256,472	1.3%	115%	294,943	1.3%		339,185		115%
7 Main	7 Maintenance for equipment	30,000	_		33,000		110%	37,950	0.2%	115%	43,643	0.2%	115%	174,078	0.8%	398.9%	200,190		115%
8 Static	Stationary	180,000	i		200,000		111%	230,000	1.4%	115%	264,500	1.4%	115%	304,175	1.4%		349,801	~~	115%
9 Electr	9 Electric power, water, Tel.	3,721,000	2		4,093,100		110%	4,707,000	l``	115%	5,413,050	28.3%	115%	6,225,008	27.8%		7,158,759		115%
9-1E	9-1. Electric power						3000		i .				292			.000			
9-2 H	9-2 Heating, cooling						10000						2227			2000			
8 - 8	9-3 Water supply, swage		-									_	9523		ŕ	220			
	9-4 Telephone(Communication Exp.)																		
10 Traff	10 Traffic expenses	90,000	0.7%		99,000		110%	113,850	0.7%	115%	130,928	0.7%	115%	150,567	0.7%		173,152	***************************************	115%
11 Laundry	dry							-							-			***************************************	
11-1	11-1 Linen												22221		***************************************				
11-2	11-2 Uniform						888						2000			800			
11-3	11-3 Others																		
12 Repa	12 Repairing of facilities	1,170,000	9.0%		1,287,000		110%	1,480,050	9.0%	115%	1,702,058	8.9%	115%	1,957,366	8.8%		2,250,971	-	115%
13 Others	S	393,700			431,100		109%	495,800		115%	570,170	3.0%	115%	969,559	2.9%		754,050	-	115%
14							_												
Medi	Medical materials	20,000	0.2%		22,000	0.2%	-	25,300	0.15%		196,941	1.03%	1.03% 778.4%	226,482	1.01%	1.01% 115.0%	260,454	1.01%	

consumables rec. paper reagent 1. Expectant estimation is based on the results in 1998
2. Supposed yearly inflation rate: 10% from 1998 to 1999, 15% since 1999

3. Quantity of bed and staff be fixed.

115%

364,449 1.42%

316,912 1.42% 188.8%

123,889

0.00%

167,846 0.88%

10,234

167,846 0.88%

115%

63,250

110%

0.4% 0.5%

33,000 55,000

0.2% 0.4%

30,000 50,000

37,950 0.23%

142,472 0.55%

460,644 1.79% 221,976 0.86%

200,190 0.78%

174,078 0.78% 398.9% 1.79% 166.5% 193,023 0.86% 115.0% 0.55%

43,643 0.23% 115.0% 240,584 1.26% 380.4%

400,560

Medical materials for project equipment Maintenace for project equipment Total for project equipment Maintenance for equipment Total

Name of Institution... CITY HOSPITAL No.3 for CHILDREN

25 Jan. 199

(Som)

Expectant Expenditure in 1999~2003		.						000		Č	2003	-	2	2002		2	2003	
		1998			1999				,			200	1	.5	C Date	Amount	Ratio	G. Rate
	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Kalio	2 7			. Natt	10 170 14C	200	1150%
Saswanya	7 622 600	100 0%		8.384.560 100.0%	100.0%	110%	9,642,219	100.0%	115%	11,279,079	100.0%	117.0%	1		117.0%		20.03 0.03	20.5
EXFENSES	7,022,000	1		000,000	202 600		3 320 500	24 50%	1150%	3 829 029	33.9%	115%	4,403,383	33.4%	115%	5,063,890	33.4%	115%
1 Personnel	2,632,100	34.5%	-	2,895,500	5,7,9	i		7 6	1168	7 7 1 032	10 50%	115%	1.623.721	12.3%	115%	1,867,280	12.3%	115%
2 Social fund	969,800	12.7%		1,066,700	12.7%		7	17.70	0/ CTT	77,111,		2000	020 665	70. 1	1150	617 641	4 10%	115%
	190,900	2.5%		210,000	2.5%	110%	241,500	2.5%	115%	467,025	4.1%	195%	27,0,75	4.1.70	0/ CT T	11,10	277	2
÷									222	17,520		<u> </u>	20.148	-	<u>⊗</u> :	D/T	+	
2-1 Neabout				Cocar			15.180		2002	164.447			189,114		-	217,481	-	
3-2 Consumables	20.71	My 14-4-4-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-	-	207.6		***************************************	20120			30000			200,308		300	344,204		
3-3 X-ray film	178,900			196,800		***************************************	025,022	***************************************	***	0071007	+		900	-	***	29.78c		
3-4 Recording paper		٠							200	24,790			80000		<u> </u>		-	
2.5 Others									2001								2000	25.00
	OUL 298	702 11		951 500	113%	110%	1,094,340	11.3%	115%	1,258,491	11.2%	115%	1,447,265	11.0%	115%	1,664,334	11.0%	11.2%
	200	•		0000000	ì			x 70%	1159	965.816	8.6%	115%	1,110,688	8.4%	115%	1,277,292	8.4%	115%
5 Meal materials	063,500	Ø. / %		OC,05/	0.170	2.77	2012				-							
6 Medical equipment(New)		***************************************			1	l		1	***************************************	, =0 , 0	-	2001	000 770	2000	7500%	304 737	20%	115%
7 Maintenance for equipment	24,000	0.3%		26,400	0.3%	110%	30,360	0.3%	115%	34,914	0.3%	201	204,202	27.7		000 01	8	2036
0.01	0 600	į		10.600		110%		0.1%	115%	14,019	0.1%	115%	16,121	0.1%	115%	26.51	0.1.0	0, 01
S Stanonary	7 3 5 5 6 00	1		0 370 ROO	[``	1	2	28.3%	115%	3,135,372	27.8%	115%	3,605,677	27.3%	115%	4,146,529	27.3%	115%
9 Electric power, water, 1el.	42220	2007				ŀ				107 209			717745		9650	824.831		
9-1 Electric power	428,800			471,500			046240			030000			1 000 463		20000	2.288.917		
9-2 Heating, cooling	1,189,800			1,308,700		-	DOCCOCT.		*****	0270271	-		200 040		130	7 004 979		
	522,400			574,600	***************************************	-	060/200			200		-	250,030			27 802		
7 Selephone (Communication Exp.)	14,500			15,900			18,280			27,022			27747			70077		
10 Traffic expenses				***************************************		_ :					200	20 0	FOC 26	800	7750%	40 577	0 30%	1150%
11 Laundry	21,100	0.3%		23,200	0.3%	110%	26,680	0.3%	115%	30,682	0.3%	115%	35,264	2,5,0	i	772	ļ	
11-1 Linen																		
11-2 Uniform																		
11-3 Others						-								-				
12 Repairing of facilities			***************************************	***************************************				-			ł	200	Cho ror	Ì	1150%	A05 NCT	1 70%	1150%
13 Others	90,600	1.2%		099'66	1.2%	110%	114,609	1.2%	115%	131,800	1.2%	115%	O/CYTET	1.170	7 T T	DOCKE 1	į	2
14																		
						-	4					100	0000			673 643	10 L V	1150
Medical materials	190,900	2.5%		210,000	2.5%		241,500	2.5%		467,025	4.1%	193%	537,079	4.1%	1	140./10	4.1%	0/C**
Meintergroe for conforment	24.000	0.3%		26,400	0.3%		30,360	0.3%		34,914	0.3%	115%	264,989	2.0%	1	15,757		07.CL1
manifestative to equipment	214 900	L		236.400	2.8%	110%	271,860	2.8%	115%	501,939	4.5%	185%	802,068	6.1%	160%	922,378	6.1%	115%
Lotal	71.74	╛			ı	ı				7	, 70°		180114	1 40	100%	217.481	1.49%	115%

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Medical materials for project equipment
Maintenace for project equipment
Total for project equipment

reagent	17,520
consumables	146,990
rec. paper	24,790
Total	189,300

217,481 258,564

1.4%

802,068 189,114

4.5% 1.7% 0.0%

501,939 189,300 189,300

^{2.} Supposed yearly inflation rate: 10% from 1998 to 1999, 15% since 1999 3. Quamity of bed and staff be fixed.

Name of Institution_MATERNITY HOUSE NO.2

24 Jan. '99

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l	Expectant Expenditure in 1999~2003						-	ľ	000		ľ	3	-		2002		,	2003	
			1998		15	1999.		7	2000		7	7007	1	7			-	3	
		Amount	Ratio	G. Rate	Amount	Ratio G	G. Rate	Amount	Ratio (G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Kate
	SESNEGXE	9.883.045 100.0%	100.0%		10.871.345	-	110%	12,502,047 100.0%	100.0%	115%	14,595,620 100.0% 116.7%	100.0%	16.7%	16,842,875	100.0%	115.4%	19,369,306		115%
-	Desconnel	1.761.900	17.8%		1.938.090		110%	2,228,804	17.8%	115%	2,563,124	17.6%		2,947,593	17.5%	115%	3,389,732	_	115%
1 0	Corial fund	805 589	•		754.157	****	110%	867.281		115%	575,796	•		1,146,979	6.8%	115%	1,319,025		115%
1 (Medical materials	193.900	į		213.290		110%	245,284		115%	500,342	3.4%	204.0%	575,393	3.4%	115%	661,702		115%
١ [٠	3-1 Reavent	40.000		1	44 000			20,600	-		68,430			78,695		333	90,499	-	
	3-2 Consumables									300	192,700		-	221,605		***	254,846		
<u>!</u>	3.3 X-ray film	OW SP			52 800	_		02.09		1888 1	69,828		333	206'08			92.348		
1	3.4 Recording names	\$1.00			\$6.100	***************************************		64.515		15888 1	89,518		3883	102,946		3000	118,388		
L	3-5 Others	600 by			060 390			69.449		***	998'6/		8866	91,846		380	105,622	-	
4	Medicine	1.590.284	16.1%		1.749.312		110%	2,011,709	16.1%	115%	2,313,465	15.9%		2,660,485	15.8%	115%	3,059,558		115%
٧.	S Meal materials	431.693			474,862		110%	546,091		115%	628,005			722,206	4.3%	115%	830,537	-	115%
2	6 Medical coupment(New)	***************************************													***************************************				
-	Maintenance for equipment	92,813	0.9%		102,094		110%	117,408	0.9%	115%	135,019	0.9%		213,184	1.3%	158%	245,162		115%
œ	8 Stationary	100.000	1		110,000		110%	126,500	1.0%	115%	145,475	1.0%		167,296	1.0%	115%	192,391		115%
0	0 Flectic namer water Tel	4 777 520	48.3%		5.255.270		110%	6,043,561	48.3%	115%	6.950,095	47.6%		7,992,609	47.5%	115%	9,191,500	-	115%
1_	9-1 Electric power	300,911			331,002			380,652		***	437,750		2000	503,413	- 1		578,925	***************************************	
į	9-2 Heating cooling	686 L66 E			3.627.787			4,171,955		1668) 	4,797,748			\$517,411		338	6,345,022	***************************************	
<u> </u>	9-3 Water supply, swage	1.167.069			1283775			1 476341		2668	1,697,792		388	1,952,461			2,245,330		
į	9-4 Telephone(Communication Exp.)	11.551			12,706			14,612		886;	16,804		265	19,324			22,223		
8	10 Traffic expenses	2,000	0.05%		5,500		110%	6,325	0.05%	115%	7,274	0.05%	***************************************	8,365	0.0%	115%	9,620		115%
	Landry	44,337	0.4%		48,770		110%	56,086		115%	64,498	0.4%	***************************************	74,173	0,4%	115%	85,299		115%
<u> </u>	11-1 I incr	12,000			13,200			15,180		386	17,457		:::S	20,076			23,087		
L	11-2 Inform	900'9			009'9			7.5%			8,729		.000	10,038			11243		
	11-3 Others	26,337			28,970	<u></u>		33,316			38,313		::::::	44,060			50,669		
12	12 Repairing of facilities	200,000	2.0%		220,000		110%	253,000	2.0%	115%	290,950	2.0%		334,593	2.0%	115%	384,781		115%
뭐	13 Others						_		i										
. A	**************************************															1			
						7													

Medical materials	193,900	2.0%	213.290	2.0%		245.284	2.0%		500,342	3.4%	204%	575,393	3.4%	115%	661,702	3.4%	
Maintenance for conjument	92.813	0.9%	102 094	0.9%	1	117.408	0.0%		135,019	0.9%	115%	213,184	1.3%	158%	245,162	1.3%	
Total	286,713	2.9%	315,384	2.9%	110%	362,692	2.9%	115%	635,361	4.4%	175%	788,578	4.7%	124%	906,864	4.7%	115%
Medical materials for project equipment								-	218,266	1.5%		251,006	1.5%	115%	288,657	1.5%	
Maintenace for project couprnent									0			57,912	0.3%		665'99	0.3%	
Total for project comment								-	218,266	1.5%		308,918	1.8%	142%	355,256	1.8%	115%

Expectant estimation is based on the results in 1998
 Supposed yearly inflation rate: 10% from 1998 to 1999, 15% since 1999
 Quantity of bed and staff be fixed.

reagent	10,240
consumables	192,700
rec. paper	15,326
Total	218,266

Name of Institution MATERNITY HOUSE NO.4 Democrates to 1000_0001

Prepare Perpare Perp	Expectant Expenditure in 1999~2003						-									1	(Som)	24,201, 22	
Control Cont			1998		15	66		2	8		2	<u>5</u>		7	700		-1		
Exception Color		Amount	Ratio	⊢	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	Ratio	G. Rate	Amount	-1	G. Rate	Amount		S. Rate
Personal Cases of Cas	EXPENSES	6.276,900	1	╌	6,904,700		110%	7,940,405		115%	9,312,250	100%	117.3%	10,808,111		116.1%	12,429,327		115.0%
Social fined 885,200 11056 240,700 111096 111056 1111056 111056 111056 111056 <th< td=""><td> _</td><td>2,339,300</td><td><u>. </u></td><td></td><td>2,573,200</td><td></td><td>110%</td><td>2,959,180</td><td></td><td>115%</td><td>3,403,057</td><td>36.5%</td><td>115%</td><td>3,913,516</td><td>36.2%</td><td>115%</td><td>4,500,543</td><td></td><td>115%</td></th<>	 _	2,339,300	<u>. </u>		2,573,200		110%	2,959,180		115%	3,403,057	36.5%	115%	3,913,516	36.2%	115%	4,500,543		115%
Accordate investigle 100,000 2,66 176,700 110,60 200,200 115,60 41,64	<u>+-</u> -	855,200		-	940,700		110%	1,081,805		115%	1,244,076	13.4%	115%	1,430,687	13.2%	115%	1,645,290		
2.5 Communication 2.5	+	160,600	2.6%	-	176,700		110%	203,205		115%	414,470		204.0%	476,641	4.4%	115%	548,137		115.0%
12. Constitutibles 12. Sept.		32000			35,200			40,480		***	63,522		156.9%	73,050			84,008		115.0%
1,2,500 1,1,	3-2 Consumables										138,257	-	**** P	158,996	***************************************	•	182,845		
According paper 15 km 10	3-3 X-ray film	12,600			13,900			15,985			17,300		108.2%	19,895			22,879		
15.50 11.5	3-4 Recording paper	15,800			17.400			20:010		-2000-1	49,652		248.1%	57,099			65,664		
Medicine 34,500 5,66 383,400 110% 440,910 115% 307,047 5,58,115.0% 5,54% 115% 649,931 115% 307,047 5,58% 115,06% 5,54% 115% 649,931 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 307,047 3,54% 115% 3,54%	3-5 Others	100,200			110,200			126,730		2000.5	145,740		115.0%	167,600			192,740		115%
Modelan materials 377,800 24% 371,600 110% 427,340 115% 40,445 5.5% 115.0% 565,157 5.2% 115% 649,931	Medicine	348,500	i		383,400		110%	440,910		115%	507,047		115.0%	583,103	5.4%	115%	670,569		7
Ewy) 157,800 0.446 1.05,760 1.10% 35,190 115% 40,445 0.4% 115.0% 145,562 1.3% 360% 167,396 Tel. 1,5,800 0.348 1,7500 1.10% 20,125 115% 2.107,933 2.66,615 0.2% 115.0% 2.66,615	Meal materials	337,800		-	371,600		110%	427,340	-	115%	491,441		115.0%	565,157	5.2%	115%	649,931		
parent 27,800 0.4% 30,000 110% 35,190 115% 40,465 0.4% 115.0% 165,502 1.3% 36,7% 167,306 Tel. 1,45,000 2.3% 1,7500 110% 1,23,485 115.0% 2,444,133 2.4% 115.0% 26,612 2.24% 115.0% 26,612 2.24% 115.0% 26,612 2.24% 115.0% 2,444,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,475,741 115.0% 2,444,133 2.24% 115.0% 2,475,741 115.0% 2,444,133 2.24% 115.0% 2,475,741 2,475,741 115.0% 2,444,133 2.24% 115.0% 2,434,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,434,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,444,133 2.24% 115.0% 2,444,133	Medical equipment(New)							***************************************											
15,000 0.3% 17,500 10.0% 10.0% 20.125 11.5% 23,144 0.2% 115.0% 2,645.15 2,24% 115.0% 2,787,741 2,24% 115.0% 2,787,741 2,24% 11.5% 2,787,741 2,24% 2,12,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,128,741 2,24% 11.5% 2,24% 11.5% 2,24% 2		27,800			30,600		110%	35,190		115%	40,469		115.0%	145,562	1.3%	360%	167,396		115.0%
Tel 1,449,000 23.1% 1,579,300 110% 1,832,900 110% 1,832,900 110% 1,932,900 110% 1,932,900 110% 1,932,900 110% 1,932,900 110% 1,932,900 110% 1,932,900 1,100%	Stationary	15,900	٠.		17.500		110%	20,125		115%	23,144		115.0%	26,615	0.2%	115%	30,608		
Secretic	Electric power, water, Tel.	1,449,000			1,593,900		110%	1,832,985		115%	2,107,933		115.0%	2,424,123	22.4%	115%	2,787,741		115.0%
Biology of Section 1505,500 1505,500 1505,500 1505,603 1506,603 <td>9-1 Electric power</td> <td>247,000</td> <td></td> <td></td> <td>271,700</td> <td></td> <td></td> <td>312,455</td> <td></td> <td>232-4</td> <td>359323</td> <td></td> <td></td> <td>413,222</td> <td></td> <td>***</td> <td>475,205</td> <td></td> <td>115.0%</td>	9-1 Electric power	247,000			271,700			312,455		232-4	359323			413,222		***	475,205		115.0%
age 35/6/300 409/346 471/207 471/207 541/888 6623/171 mulciation Exp.) 113.700 113.700 110.900 14,835 115% 28,444 0.3% 115% 225/502 mulciation Exp.) 113.700 0.3% 24,725 115% 28,444 0.3% 115% 32,669 67,000 1.1% 73.700 110% 84,755 115% 97,468 1.0% 115.0% 115% 128,902 67,000 0.6% 73.700 1.0% 73.700 110% 84,755 115% 97,468 1.0% 115.0% 115% 75.577 ment 67,000 0.6% 47,3200 110% 780,505 115% 897,581 9.6% 115.0% 11,87,005 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87,00 11,87	9-2 Heating, cooling	866,400			953,000			1,095,950		2000	1,260,343		<u>0,615</u>	1,449,394	-	200	1.666,803		115.0%
unification Exp.) 11,700 12,500 11,00 24,725 115% 28,434 0.3% 115.0% 32,639 0.3% 115% 22,552 19,500 0.3% 21,500 110% 24,725 115% 28,434 0.3% 115.0% 115% 126,69 67,000 1.1% 73,700 110% 84,755 115% 115.0%<	[9-3 Water supply, swage	323,900			356,300			409,745		632	471,207			541,888			171,529		
19,500 0.3% 21,500 110% 24,725 115% 28,434 0.3% 115.0% 115% 21,659 0.3% 115% 21,669 0.3% 115% 21,669 0.3% 115% 21,669 115% 21,669 115% 21,669 115% <th< td=""><td>9-4 Telephone (Communication Exp.)</td><td>11,700</td><td></td><td></td><td>12,900</td><td></td><td></td><td>14,835</td><td></td><td>22361</td><td>17,060</td><td></td><td><u>~~1</u></td><td>19,619</td><td></td><td></td><td>22,562</td><td></td><td></td></th<>	9-4 Telephone (Communication Exp.)	11,700			12,900			14,835		22361	17,060		<u>~~1</u>	19,619			22,562		
67,000 1.1% 73,700 110% 84,755 115% 115.0%	Traffic expenses	19,500	i		21,500		110%	24,725		115%	28,434	0.3%	115.0%	32,699	0.3%	115%	37,604		115.0%
Colored Colo	Laudry	000'29	•		73,700		110%	84,755		115%	97,468	1.0%	115.0%	112,088	1.0%	115%	128,902		115.0%
Colore C	11-1 Linen																		
67,000 0.6% 73,700 84,755 115% 57,132 0.6% 115.0% 65,702 0.6% 115% 71,132 0.6% 115.0% 65,702 0.6% 115% 75,132 0.6% 115.0% 0.6% 115% 75,132 0.6% 115.0% 0.6% 115% 75,132 0.6% 115.0% 0.6% 115% 75,521 9.6% 115.0% 0.6% 115% 75,522 1	11-2 Uniform									2201								1	
39,300 0.6% 43,200 110% 49,680 115% 57,132 0.6% 115.0% 65,702 0.6% 115% 75,557 1 formal 617,000 9.8% 678,700 110% 780,505 115% 897,581 9,6% 115.0% 65,702 0.6% 115% 71,505 1 pment 160,600 2.6% 176,700 203,205 2.6% 115% 404,460 0.4% 145,562 1.3% 350% 167,396 pment 27,800 0.4% 30,600 110% 238,395 3.0% 115% 454,939 4.9% 191% 622,202 5.8% 157,533 project equipment 188,400 3.0% 207,300 110% 238,395 3.0% 115% 4.9% 191% 622,202 5.8% 115,335 9.9% 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876	11-3 Others	67,000			73,700		338.I	84,755		22	97.468		****	112,088		***	128,902		
ment 27,800 0.4% 176,700 1.10% 238,395 3.0% 1.15% 897,581 9.6% 115.0% 1,032,218 9.6% 115.0% 115% 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876 113,876	Repairing of facilities	39,300			43,200		110%	49,680		115%	57,132		115.0%	65,702	0.6%	115%	75,557		115.0%
Medical materials 160,600 2.6% 176,700 2.03,205 2.6% 115% 414,470 4.5% 204% 476,641 4.4% 115% 548,137 Maintenance for equipment 27,800 0.4% 30,600 35,190 0.4% 115% 40,469 0.4% 115% 145,562 1.3% 36,0% 167,396 Total 188,400 3.0% 207,300 110% 238,395 3.0% 115% 454,939 4.9% 191% 622,202 5.8% 137% 715,533 Medical materials for project equipment 30,005 0.9% 100 99,023 0.9% 113,876 240,519 Avaintenace for project equipment 181,867 2.0% 308,170 2.9% 169% 354,396	Others	617,000)	9	678,700		110%	780,505		115%	897,581		115.0%	1,032,218	9.6%	115%	1,187,051		115.0%
160,600 2.6% 176,700 203,205 2.6% 115% 414,470 4.5% 204% 476,641 4.4% 115% 548,137 27,800 0.4% 30,600 30,600 110% 238,395 3.0% 115% 40,469 0.4% 115% 145,562 1.3% 36,0% 167,396 equipment 188,400 3.0% 110% 238,395 3.0% 115% 454,939 4.9% 191% 622,202 5.8% 137% 715,533 pment 0	4																		
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27,800 0.4% 30,600 35,190 0.4% 115% 40,469 0.4% 115% 145,562 1.3% 36,0% 167,396 167,396 equipment 188,400 3.0% 100% 238,395 3.0% 115% 454,939 4.9% 191% 622,202 5.8% 137% 715,533 9 equipment 100 100 1100% 238,395 3.0% 115% 240,519 113,876 1	Medical materials	160,600			176,700			203,205	2.6%	115%	414,470	4.5%	204%	476,641	4.4%	. [548,137	1	
188,400 3.0% 207,300 110% 238,395 3.0% 115% 454,939 4.9% 191% 622,202 5.8% 137% 715,533 715,633	Maintenance for equipment	27,800	.		30,600			35,190	0.4%	115%	40,469	0.4%	115%	145,562	1.3%	360%	167.396		
equipment 181,867 2.0% 209,147 1.5% 115% 240,519 pment 0 99,023 0.9% 113,876 pment 181,867 2.0% 308,170 2.9% 169% 354,396	Total	188,400			207,300		110%	238,395	3.0%	115%	454,939	4.9%	191%	622,202	5.8%	137%	715,533		115%
pment 0 99,023 0.9% 113,876 13,876 181,867 2.0% 308,170 2.9% 169% 354,396	Medical materials for project equipmen	11 }							-		181,867	2.0%		209,147	1.9%	115%	240,519		
181,867 2.0% 308,170 2.9% 169% 354,396	Maintenace for project equipment	:									o			99,023	0.9%		113,876		
	Total for project equipment						:				181,867	2.0%		308,170	2.9%		354,396		115%

	regent	16,970	
	consumables	138,257	:
· :	rec. paper	26,640	
ı	Total	181,867	. *-

Expectant estimation is based on the results in 1998.
 Supposed yearly inflation rate: 10% from 1998 to 1999, 15% since 1999
 Quantity of bed and staff be fixed.

- (2) Influence for whole expenditure of each project institutions
- 1) Bishkek Ambulance Center: The operation cost of these facilities doesn't include the fuel expenses which are most of the expendable consumables. Because the fuel is purchased in lump sum under the vehicle-center of Bishkek city.
 - The operation / maintenance cost of all equipment in 2002 years is expected with 17% of whole expenditure of this institution, though the necessary operation / maintenance cost born by equipment procured in this project is only 3.0% of whole expenditure and it is, therefore, out of question specially
- 2) National Surgical Center: Though it is expected with 1,080,000 Som as the operation / maintenance cost of equipment procured in this project in 2002, the cost is 39% only of operation / maintenance cost of all equipment 2,754,000 Som which is only 15.5% of all expenditure in the institution. It is appropriate comparing with the cost of Gunma cardiology medical center 14% and Chiba emergency medical center 17.9% in 1995.
- 3) Republic Infection Disease Hospital: It is expected with 317,000 Som, as the operation / maintenance cost of the equipment procured in this project. It is 79% of 400,000 Som the cost of all equipment in this institution in 2002. Though, The 4000,000 Som is 1.8% only of the whole expenditure in this institution. Total cost of operation / maintenance cost of all equipment and medicines is expected with 22% of whole expenditure, though, t is appropriate as a infectious disease hospital and is judged as suitable figures from the conditions of the existing equipment.
- 4) City Hospital No.3 for children: As for the operation / maintenance cost of the equipment procured in this project, 414000 Som is expected in 2002.
 - The cost is equivalent to 51.6% of 802,000 Som all operation / maintenance cost of all equipment in the institution, though, it is also 3.1% only of whole expenditure and appropriate
- 5) Maternity House No.2: As for the operation / maintenance cost of the equipment procured in this project, 309,000 Som is expected in 2002.
 - AS for the operation / maintenance cost of all equipment 677000 VL (3.9% of whole expenditure of the institution) is summed up, and it is out of question specially.
- 6) Maternity House No.4: As for the operation / maintenance cost of the equipment in the same way, 308,000 Som is expected in 2002.
 - 622,000 Som (5.8% of whole expenditure of the institution) is expected as for the operation / maintenance cost of all equipment and it is out of question specially.

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Chapter 4

Project Evaluation and Recommendation

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CHAPTER 4 PROJECT EVALUATION and RECOMMENDATION

4-1 Project Evaluation and Effect

The beneficiary population of this project is estimated as about one million citizens in Bishkek City. Through implementation of this Project, it will be possible to re-contribute and enhance the more efficient emergency medical care system of Bishkek by procuring ambulance cars and communication equipment for Bishkek Ambulance Center and procuring medical equipment for use in emergency medical care for the project institutions. This project is thus aimed at contributing greatly to the citizens' health, safety and improving the national health care indicators of Kyrgyz.

The objectives of this project is mainly the replacement of the existing equipment for the project institutions including ambulance cars, therefore it is considerable that the operating, managing and maintaining the procured equipment will be proceeded without any technical trouble by the staffs of project institutions.

4-2 Project Benefit

- (1) By the procurement of ambulance cars provided equipment and communication equipment, it will be possible that fast and efficient dispatching of ambulance cars, effective medical care on site and delivery to hospital.
- (2) By the procurement of basic essential equipment, it will be possible the more effective medical treatment by exactly catching of the vital sign of patient.
- (3) By the procurement of ambu bags, defibrillators and intubation sets, it will be possible to upgrade the medical ability for lifesaving of emergency patient.
- (4) By the procurement of ultrasonoscope, electrocardiograph and endoscope, it will be possible to perform more effective and adequate diagnosis and treatment for emergency patient.
- (5) By the procurement of blood gas analyzer, K, Na, Cl analyzer and blood cell counter, it will be possible to perform more effective and adequate diagnosis and treatment for emergency patient based on clinical data analyzed quickly and exactly.
- (6) By the procurement of operation tables, operation lights, anesthesia apparatus and bedside monitors, it will be possible that the more effective and reliable operation and monitoring for emergency patient.
- (7) By the procurement of fetal monitor and infusion pump, it will be possible to decrease the mortality of infant and pregnant women by effective monitoring and reliable delivery for emergency patient.
- (8) By the procurement of neonatal monitor and infant incubator, it will be possible that the more effective treatment and monitoring for infant and baby with diseases.

(9) Project hospitals are the tertiary hospitals in the each specialties, therefore it will be quite effective for recovering of citizen's trust to emergency medical care system by the upgrading of medical functions mentioned above.

4-3 Recommendation

As stated earlier, this project is expected to produce many beneficial effects and to improve the Basic Human Needs of people of Bishkek. It was concluded, therefore, that it is significant to implement this project. Furthermore, concerning the implementation and management of this project, it is appropriate that there is no obstacle on the staffing and financing in Kyrgyzstan side. However it is desirable that the followings are to be improved in order to implement this project more smoothly and effectively.

This project aims to solve the problems on facilities ("hardware") by procuring ambulance cars and medical equipment for each project institutions to improve the function of emergency medical care. However in order to improve and reform the emergency medical service system drastically in accordance with principle of MANAS Program, not only the improvement of medical equipment but also a wide range of improvement is important and required in Kyrgyzstan side like as followings.

1) Improvement of primary emergency medical system

In present, even medical care for patient in chronic disease is served at home by emergency medical team dispatched from ambulance center. In order to operate the emergency medical service system efficiently, it is desirable that the medical service for chronic disease patient to be transferred from emergency doctor to FGPs (home doctor group) working at polyclinic. Therefore home doctor training shall be fulfilled in program of doctor's brush up training.

The enlightenment and public relations for activity of policlinic and ambulance center shall be encouraged to resident.

The medical service at night and holiday should be performed by policlinic for primary emergency patient.

It is necessary to accelerate introduction of the health insurance system and the user fee system and to clear the remuneration system of medical service. Therefore, it able to be expected to upgrade the quality of medical service and morals of professionals.

2) Establishment of efficient secondary and tertiary emergency medical service system

At present in Bishkek, The emergency medical system consists of Bishkek Ambulance Center and more than 14 designated hospitals over-specialized, therefore it able to say that the system is not operated efficiently and rationally. As previously mentioned in MANAS program, with the establishment of home doctor system and primary emergency medical care system, it is desirable that over-specialized city hospitals in Bishkek should be generalized like as central rayon hospital in local area. As the result of generalization, Generalized city hospitals are required to perform the secondary emergency medical service.

Concerning tertiary emergency medical care as well, it is necessity that hospital in charge of tertiary emergency medical care should perform synthetic and high-level care. Therefore, it is desirable that a few emergency medical centers should be established for efficient and rational tertiary emergency medical care system by apart from over-specialized national hospitals and institutes.

In order to promote the effect of execution of this project further, maintenance and management system should be established by placement of technical staff for daily maintenance and management of repairing.

A few of equipment procured in this project require additional operation and maintenance cost and maintenance service by manufacturer with contract. The necessary budgeting for maintenance service contract shall be ensured to use equipment under good condition for long period.

Appendices

1. Member List of the Survey Team

1. Member List of the Survey Team

Basic Design Study Team (September 16 - October 20, 1998)

NAME	ROLE	INSTITUTION
Dr. Tsuyoshi Matsuba	Leader	Doctor International Medical Center of Japan Ministry of Health and Welfare
Mr. Norimasa Fujita	Project Coordinator	Grant Aid Project Study Department Japan International Cooperation Agency
Mr. Mamoru Nakajima	Project Manager	Nihon Healthcare Consultants, Inc.
Mr. Makoto Suzuki	Equipment Planner	Nihon Healthcare Consultants, Inc.
Mr. Koichi Murao	Equipment Planner	Nihon Healthcare Consultants, Inc.
Mr. Morihiko Hashi	Interpreter	Nihon Healthcare Consultants, Inc.
Mr. Takahisa Isobe	Facility Planner	Nihon Sekkei, Inc.
Mr. Takafumi Yasuda	Cost Planner	Nihon Sekkei, Inc.
Mr. Shuzo Ishikawa	Facility Planner	Nihon Sekkei, Inc.

Explanation Team for the Draft Basic Design Study (January 10 - January 30, 1999)

NAME	ROLE	INSTITUTION
Dr. Tsuyoshi Matsuba	Leader	Doctor International Medical Center of Japan Ministry of Health and Welfare
Miss. Rina Hirai	Project Coordinator	Grant Aid Project Study Department Japan International Cooperation Agency
Mr. Mamoru Nakajima	Project Manager	Nihon Healthcare Consultants, Inc.
Mr. Makoto Suzuki	Equipment Planner	Nihon Healthcare Consultants, Inc.
Mr. Morihiko Hashi	Interpreter	Nihon Healthcare Consultants, Inc.

2. Survey Schedule

2. Survey Schedule

Basic Design Study Schedule (September 16 - October 20, 1998)

	Date	Activities
Sep. 16	5 Wed)	Narita - Frankfurt (JICA Official and Consultant)
	7 (Thu)	• Frankfurt - Almaty
18	3 (Fri)	Courtesy Call to the Embassy of Japan
		· Almaty - Bishkek
		· Courtesy Call to MOH
	·	· Meeting with MOH, Hospitals, WHO and World Bank
		· Visit to Ambulance Center
		One member of the Consultant, Islamabad- Almaty
19	9 (Sat)	· Visit to National Surgical Center
	` ′	Visit to Republican Infection Disease Hospital
•		• One member of the Consultant, Almaty - Bishkek
20	O (Sun)	Visit to City Hospital No. 3 for Children
	1 (Mon)	· Visit to National Children Hospital
		· Visit to Maternity House No. 2
		Visit to Maternity House No. 4
22	2 (Tue)	• Workshop
		Courtesy Call to GOSCOMINVEST
23	3 (Wed)	Meeting with Ambulance Center
	` '	Meeting with National Surgical Center
		Meeting with Republican Infection Disease Hospital
24	4 (Thu)	Meeting with City Hospital No. 3 for Children
		Meeting with Maternity House No. 2
		Meeting with Maternity House No. 4
2.5	5 (Fri)	Discussion on Minutes of Discussions
	6 (Sat)	• Internal meeting within the Team
2	7 (Sun)	· Internal meeting within the Team
	8 (Mon)	Signing of Minutes of Discussions
	` '	· JICA Official, Bishkek - Almaty
		· Report to Embassy of Japan
		Consultant, meeting with MOH
29	9 (Tue)	JICA Official, Almaty - Frankfurt to Narita
		Meeting with MOH and World Bank
		· Meeting with Maternity House No. 2
		Meeting with Maternity House No. 4
30	0 (Wed)	JICA Official arriving to Narita
·. ·	· ·	· Meeting with WHO
		Meeting with City Hospital No. 3 for Children
Oct. 0	1 (Thu)	· Meeting with National Surgical Center
		· Meeting with Republican Infection Disease Hospital
0:	2 (Fri)	Meeting with Know-How Project Team
		• Visit to City Hospital No. 4
U.	3 (Sat)	Survey of ambulance car of Ambulance Center

Oct.	04 (Sun)	· Internal meeting within the Team
		Two members of Consultant, Narita - Frankfurt
	05 (Mon)	· Meeting with World Bank
		· Meeting with National Surgical Center
		· Meeting with Maternity House No. 4
		Two members of the Consultant, Frankfurt - Almaty
	06 (Tue)	· Meeting with Maternity House No. 2
		· Survey on City Hospital No. 3 for Children
		Two members of the Consultant, Almaty - Bishkek
<u></u>	07 (Wed)	· Meeting with WHO
	0. ()	· Survey on Republican Infection Disease Hospital
		Survey on National Surgical Center
	08 (Thu)	Meeting with Ambulance Center
	00 (1110)	· Survey on City Hospital No. 3 for Children
		One member of the Consultant, Bishkek - Almaty
-	09 (Fri)	Meeting with Dept. of Public Health Municipality of Bishkek
	09 (111)	· Survey of National Surgical Center
		• Survey on Maternity House No. 4
-		• Survey on Maternity House No. 2
ļ		• One member of the Consultant, Almaty - Frankfurt to Narita
-	10 (0-4)	· Meeting with Ambulance Center
-	10 (Sat)	Survey on equipment of third country
	11 (0)	One member of the Consultant arriving to Narita Veteral mosting within the Team
	11 (Sun)	Internal meeting within the Team Meeting with MOH
	12 (Mon)	
		Meeting with Ambulance Center
		• Meeting with Dept. of Public Health Municipality of Bishkek
_		Survey on equipment of third country
	13 (Thu)	• Meeting with MOH and World Bank
		• Survey on ambulance car of Ambulance Center
_		Meeting with Maternity House No. 4
	14 (Wed)	Meeting with Kyrgyz Meditechnica The best of Manager dury and RDM with MOH
		• Discussion on Technical Memorandum and PDM with MOH
_		Discussion on Technical Memorandum with GOSCOMINVEST
	15 (Thu)	· Visit to Kyrgyz Meditechnica
		• Discussion with MOH on PDM
		Signing of Technical Memorandum
	16 (Fri)	• Consultant, Bishkek - Almaty
_		· Report to the Embassy of Japan
	17 (Sat)	· Consultant, Almaty - Frankfurt
		Two members of the Consultant, survey on equipment
		Three members of the Consultant, Frankfurt to Narita
	18 (Sun)	Three members of the Consultant arriving to Narita
	19 (Mon)	Two members of the Consultant, Frankfurt to Narita
<u> </u>	20 (Tue)	· Two members of the Consultant, arriving to Narita

Explanation Schedule for Draft Basic Design Study (January 10 - January 30, 1999)

	Date	Activities
Jan.	10 (Sun)	Consultant, Narita - Frankfurt
	11 (Mon)	Frankfurt - Almaty
	12 (Tue)	Courtesy Call to the Embassy of Japan
	` '	· Almaty - Bishkek
		Meeting with MOH
	13 (Wed)	Meeting with GOSCOMINVEST
		· Meeting with MOH
	14 (Thu)	Meeting with Ambulance Center
		Meeting with National Surgical Center
	15 (Fri)	Meeting with Republican Infection Disease Hospital
		Meeting with City Hospital No. 3 for Children
	16 (Sat)	· Meeting with Maternity House No. 2
		· Meeting with Maternity House No. 4
	17 (Sun)	JICA Official, Narita - Frankfurt
	18 (Mon)	· JICA Official, Frankfurt - Tashkent
1		· Meeting with MOH
		Meeting with Ambulance Center
	19 (Tue)	• JICA Official, Tashkent - Almaty
		JICA Official, Courtesy Call to the Embassy of Japan
		JICA Official, Almaty - Bishkek
		Internal meeting within the Team
	20 (Wed)	· Courtesy Call to MOH
		Discussion with MOH and related Hospitals and Ambulance Center
	21 (Thu)	Discussion with MOH, WHO and World Bank
		Discussion with GOSCOMINVEST
	22 (Fri)	· Signing of Minutes of Discussions
		• JICA Official, Bishkek - Almaty
		Report to Embassy of Japan
L		Consultant, Meeting with Ambulance Center
	23 (Sat)	JICA Official, Almaty - Frankfurt to Narita
		· Survey on Republican Infection Disease Hospital
<u> </u>		Survey on National Surgical Center
-	24 (Sun)	JICA Official arriving to Narita
	25 (Mon)	• Survey on City Hospital No. 3 for Children
		• Survey on Maternity House No. 2
	26 (Tue)	· Survey on Maternity House No. 4
		· Meeting with MOH
	27 (Wed)	· Meeting with MOH
		· Signing of Technical Memorandum
	28 (Thu)	· Consultant, Bishkek - Almaty
		Report to Embassy of Japan
	29 (Fri)	· Consultant, Almaty - Frankfurt to Narita
	30 (Sat)	Consultant arriving to Narita

3. List of Party Concerned in the Recipient Country

3. List of Party Concerned in the Recipient Country

Basic Design Study

[THE STATE COMMISSION ON FOREIGN INVESTMENTS AND ECONOMIC ASSISTANCE]

Mr. URKALY T. ISAEV

Chairman

Mr. URAN T. ABDYNASYROV

Deputy Chairman

[MINISTRY OF HEALTH]

Dr. N. KASIEV

Minister

Dr. AALIEV gG. R.

Deputy Health Minister

Dr. K. MAMBETOV

Chief of Medical Prophylactic Department

Dr. R. JAKYPOVA

Chief Therapist

[MINISTRY OF FINANCE]

Ms. A. OUKTAMKHAN

First Deputy of Minister of Finance

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Deputy Chief of Health Administration of Bishkek City

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Mr. SIVKO

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Deputy Chief Director

Dr. K. LEE

Head of Obstetric Department

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Dr. N. VOICHENKO

Deputy Chief Director]

[REPUBLICAN CHILDREN'S CLINICAL HOSPITAL]

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Dr. Z. T. TOKOGONOVA

Chief Director

[CITY CLINICAL HOSPITAL NO. 6]

Dr. A. C. USUPBAEV

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[CITY POLICLINIC NO. 9]

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[WHO LOCAL BUREAU]

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Deputy Chief

Dr. A. IMANBAEV

National Professional Officer WHO Liaison Office, Kyrgyz

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Director, WHO Inf. Center for Health for Central A. Republics

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Dr. M. M. KARATAEV

Coordinator for Provider Payment Reform Component

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Operations Officer

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[MEDICAL SERVICE 051]

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Explanation for Draft Basic Design Study

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[WORLD BANK]

Dr. ALMAZ IMANBAEV

Representative

[WHO LOCAL BUREAU]

Mr. KAZUBA M. STEPANOVICH

Representative

4. Minutes of Discussion

MINUTES OF DISCUSSIONS ON BASIC DESIGN STUDY ON THE PROJECT FOR UPGRADING THE EMERGENCY MEDICAL SYSTEM IN BISHKEK IN THE KYRGYZ REPUBLIC

In response to a request from the Government of Kyrgyz the Government of Japan decided to conduct a Basic Design Study on the Project for Upgrading the Emergency Medical System in Bishkek (hereinafter referred to as "the Project"), and entrusted the study to Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Kyrgyz a study team (hereinafter referred to as "the Team"), which is headed by Dr. Tsuyoshi MATSUBA, International Medical Center of Japan, Ministry of Health and Welfare, and is scheduled to stay in the country from September 18th to October 16th, 1998.

The Team held discussions with the officials concerned of the Government of Kyrgyz and conducted field surveys at the study area.

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

Bishkek, September 28, 1998

7/ 0/ 7/ 7/

Dr. Tsuyoshi MATSUBA

Leader,

Basic Design Study Team, JICA

Japan

Mr. Urkaly T. Isaev

Chairman,

The State Committee of the

Kyrgyz Republic on Foreign Investment

and Economic Development

Dr. Naken K. Kasiev

Minister,

Ministry of Health

Kyrgyz Republic

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ATTACHMENT

1. Objectives of the Project

The objective of the Project is to improve and strengthen the Emergency Medical System in Bishkek through procurement of equipment under Japan's Grant Aid.

2. Responsible Ministry and Executing Agency

(1) Responsible Ministry:

The State Committee of the Kyrgyz Republic

on Foreign Investment and Economic

Development

(2) Executing Agency

Ministry of Health, the Kyrgyz Republic

3. Items requested by Kyrgyz side

The request from Kyrgyz side to the Team is shown in ANNEX - 1. However, the final components of the Project will be decided after further studies.

4. Japan's Grant Aid System

- (1) Kyrgyz side has understood the system of Japanese Grant Aid System explained by the Team. The system is shown in ANNEX 2.
- (2) Kyrgyz side will take the necessary measures described in ANNEX-3, for smooth implementation of the Project on conditions that the Grant Aid Assistance by the Government of Japan is extended to the Project.

5. Schedule of the Study

- (1) The Team will proceed to further studies in Kyrgyz until October 16th, 1998.
- (2) JICA will prepare the draft report in English and dispatch a mission in order to explain its contents in January 1999.
- (3) In case that the contents of the report is accepted in principle by Kyrgyz side, JICA will complete the final report and send it to Kyrgyz side around March, 1999.

6. Monitoring of the Project

The Executing Agency have responsibility for monitoring the progress of all phases of the Project such as allocation of funds, operation and maintenance of the Bishkek Ambulance Center, three Hospitals and two Maternity Houses.

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7. Others

- (1) Kyrgyz side has promised to submit the answer to the "Questionnaire" to the Team until September 30, 1998.
- (2) Kyrgyz side has promised to submit the documents stating the demand projection of ambulance car, for coming five years, for the improvement of emergency medical system based on the report of "Know-how Project", to the Team until September 30, 1998.
- (3) Kyrgyz side has promised to submit the documents stating data regarding the selection of planned equipment with its quantity, the specification identification and the operation purpose with its use frequency of planned equipment for the emergency medical system, to the Team until September 30, 1998.
- (4) Kyrgyz side has promised to submit to the Team the documents below until September 30, 1998.
 - the proposed plan of revenue and expense of Bishkek Ambulance Center and five Hospitals for coming five years.
 - the plan of operation and maintenance cost for each equipment for five years period after the supply the equipment procured through the Japan's Grant Aid.
- (5) Kyrgyz side will take the necessary measures for removing the existing equipment such as x-ray apparatus, operating light, steam sterilizer, etc. before the installation work of the equipment procured through the Japan's Grant Aid.

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ANNEX -1.

1. Project Sites

- (1) Bishkek Ambulance Center
- (2) National Surgical Center
- (3) Republican Infection Disease Hospital
- (4) City Hospital No. 3 for Children
- (5) Maternity House No. 2
- (6) Maternity House No. 4

2. Basic Criteria for Selection and Deletion of Equipment

- [1] Priority principle
- (1) Equipment to be replaced with the existing deteriorated equipment.
- (2) Equipment to be supplemented additionally for the existing equipment whose quantity are definitely in short.
- (3) Equipment to be utilized for basic diagnosis and treatment activities.
- (4) Equipment with no difficulties on the operation and maintenance conditions.
- (5) Equipment to be utilized for great benefit because of large number of patients to be treated.
- (6) Equipment which produce high cost effectiveness.
- (7) Equipment whose medical effect are established.
- (8) Equipment to be operated and maintained properly by the present technical level of the hospital staff.
- (9) Equipment whose operation and maintenance manpower is established or will be established soon whether in-hospital or out-hospital staff.
- (10) Equipment suitable for social background conditions (such as referral system and local needs).
- (11) Equipment which might be possible to cooperate and coordinate with other donor.
- [2] Deletion principle
- (1) Equipment which need high operation and maintenance cost.
- (2) Equipment to be utilized for small benefit because of limited number of patients to be treated.
- (3) Equipment which produce low cost effectiveness.
- (4) Equipment to be utilized for research activities and not for patient treatment purpose.
- (5) Equipment to be utilized employing more simple type.

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- (6) Equipment which produce waste materials causing environmental contamination problem.
- (7) Equipment whose medical effect are not established.
- (8) Equipment which might be used for individual use by the hospital staff (not for medical activities).
- (9) Equipment which might be requested more than optimal minimum quantity (ineffective and duplicate equipment).
- (10) Equipment which some difficulties for spare parts and consumable supplies in local site.
- (11) Equipment to be operated and maintained unproperly by the present technical level of the hospital staff.
- (12) Equipment whose operation and maintenance manpower is not established or will not be established soon whether in-hospital or out-hospital staff.
- (13) Equipment unsuitable for social background conditions (such as referral system and local needs).
- (14) Equipment with additional infrastructure improvement work (such as water, electricity and drainage, etc.) for the installation.
- (15) Equipment with proper reutilization of the existing equipment.
- [3] Principle applicable for international standards

 WHO guidelines (for example Radiological Apparatus Installation, etc.) should be applied individually.
- 3. Equipment Requested by Kyrgyz side

In the Equipment List attached herewith the Priority "A" and "B" will have the meanings below:

- A: high priority confirmed essential equipment to be planned for the Emergency Medical System.
- B: medium priority confirmed but to be reviewed in the further study equipment to be utilized in general medical services but not cleared for emergency medical care.
 - * After the submission of all necessary doucments listed in item 7. by Kyrgyz side, the equipment B will be have the possibility to be ranked up as priority A with the further studies in Japan.

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Equipment List for Bishkek Ambulance Center

DESCRIPTION	PRIORITY A/B
Specialized Ambulance Car w/ Std. Acc.	В
Portable Defibrillator	В
Electrocardiograph	В
Electrical Suction Unit	В
Intubation Set	В
Steam Sterilizer	В
Communication Device	A
Charging Device for Battery	В
Mobile Artificial Respiration Apparatus	В
Ambu Bag for Children	, A
Ambu Bag for Adults	A
Glucosemeter	В
Electronic Sphygmomanometer for Children	В
Electronic Sphygmomanometer for Adult	В
Bag for Drugs	В
Spare Parts for Existing Ambulance Car	В

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Equipment List for National Surgical Center

DESCRIPTION	PRIORITY A/B
1. Operating Room & Sterilization	
Electro-surgical Unit	A
Electric Suction Unit	A
Operating Table	В
Operating Light	В
Operating Light/Auxiliary Floor Mobile Type	В
Anesthesia Apparatus w/ Ventilator	В
Patient Monitor	В
Defibrillator	. В
Pulse Oxymeter	В
Film Illuminator	В
C-arm X-ray TV System	В
High Pressure Steam Sterilizer	В
Operating Instrument Set	A
Common Surgery Instrument Set	A
Stainless Instrument	В
2. ICU	
Defibrillator	В
Bedside Monitor	В
Ventilator	A
Sphygmomanometer	В
Automatic Resuscitator	В
Low Pressure Continuous Suction Unit	В
Ultrasonic Nebulizer	В
Oxygen Tent	В
Ambu Bag	A
3. Abdominal & Others	
Bronchoscope/Flexible	В
Gastrointestinal Fiberscope	В
Halogen Light Source	В
Endoscopic Suction Pump	В
Endoscopic Trolley	В
Ultrasound/Mobile	В
Thoracoscope	В
Cabinet for Endoscope	В
Blood Gas Analyzer	В
Coagulometer	В

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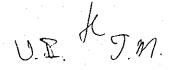
Equipment List for National Surgical Center (Cont.)

DESCR	IPTION	PRIORITY A/B
4. Basic Essencial Equipment	100	A/D
Height Measuring Rod		В
Weighing Scale		В
Stethoscope		В
Sphygmomanometer		В
Diagnostic Set		В
Clinical Thermometer		В
Laryngoscope		ъ В
Small Operating Instrument Set		В
Operating Instrument Set		В
Boiling Sterilizer		В
Instrument Sterilizing Case		В
Dressing Jar with Stand		В
Stretcher		В
Instrument Table		В
Instrument Carriage		В
Emergency Cart		В
Mobile Stand Lamp		В

Equipment List for

Republican Infection Disease Hospital

Infant Incubator Infant Scale Ultrasonic Nebulizer Infant Ventilator Resuscitator for Neonate and Adult Neonatal Monitor Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer Low Pressure Continuos Suction Unit	A/B A B A A B B A A B B B B B B B B B B
Infant Incubator Infant Scale Ultrasonic Nebulizer Infant Ventilator Resuscitator for Neonate and Adult Neonatal Monitor Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B A A B B A A B B B B B B B B B B B
Infant Scale Ultrasonic Nebulizer Infant Ventilator Resuscitator for Neonate and Adult Neonatal Monitor Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B A A B B A A B B B B B B B B B B B
Ultrasonic Nebulizer Infant Ventilator Resuscitator for Neonate and Adult Neonatal Monitor Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	A A B B A A B B B B B B B B B
Infant Ventilator Resuscitator for Neonate and Adult Neonatal Monitor Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	A B B A A B B B B B B B B B
Resuscitator for Neonate and Adult Neonatal Monitor Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B B A A B B B B B B B B B
Neonatal Monitor Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B A A B B B B B B B
Syringe Infusion Pump Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	A A B B B B B B B
Infusion Pump Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	A B B B B B B B
Oxygen Tent Suction Pump 2. ICU. Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B B B B B
Suction Pump 2. ICU Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B B B B
2. ICU . Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B B B
Ventilator Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B B B
Bedside Monitor Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B B B
Defibrillator w/ External Pacer Unit ECG w/ Analyzer	B B
ECG w/ Analyzer	В
	ļ
Low Pressure Continuos Suction Unit	I
	В
Ultrasonic Nebulizer	В
Endotracheal Set	, . В
3. X-ray Cabinet	
X-ray Unit	В
X-ray Film Processor	В
X-ray Film Illuminator	A
4. Biochemical Clinic Laboratory	
Blood Cell Counter	В
Binocular Microscope	В
Hematocrit Centrifuge	В
Na, K, Cl Analyzer	В
Glucose Analyzer	В
Versatile Clinical Refractometer	В
Hot Air Sterilizer	В
Digital Micro Pipette Set	В
5. Sterilizing & Others	
Steam Sterilizer	A
Ultrasound	В
CO2, O2, Na, K, Cl Analyzer	В



Equipment List for

Republican Infection Disease Hospital (Cont.)

DESCRIPTION		PRIORITY A/B
6. Basic Essencial Equipment		
Height Measuring Rod		В
Weighing Scale		В
Stethoscope		В
Sphygmomanometer		В
Diagnostic Set		В
Clinical Thermometer		В
Laryngoscope		В
Small Operating Instrument Set		В
Operating Instrument Set		В
Boiling Sterilizer		В
Instrument Sterilizing Case		В
Dressing Jar with Stand		В
Stretcher		В
Instrument Table		В
Instrument Carriage	1 4	В
Emergency Cart		В
Mobile Stand Lamp		В

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Equipment List for

City Hospital No. 3 for Children

DESCRIPTION	PRIORITY A/B
1. X-ray	
X-ray Unit	В
X-ray Unit/Mobile	A
2. Operation Room & Others	
Anesthesia Apparatus w/ Ventilator	A
Defibrillator	В
Pulse Oxymeter	В
Multipurpose Operating Table	A
Electro-Surgical Unit	A
Operating Light	A
Operating Light/Auxiliary Floor Mobile Type	В
Electric Suction Unit	. A
Operating Microscope	В
Ventilator	В
Steam Sterilizer	В
Distillator	В
3. Pediatric & Others	
Syringe Infusion Pump	В
Pediatric Surgical Incubator	A
Pulse Oxymeter	A
Suction Unit	В
4. Endoscope & Others	
Rigid Respiratory Bronchoscope	В
Gastroduodeno Fiberscope	В
Halogen Ligth Source	В
Endoscopic Suction Unit	В
Endoscopic Trolley	В
Endoscope Table	В
Blood Gas Analyzer	В
Cysto-urethroscope Set	В
Halogen Light Source	В
Bedside Monitor	В
C02, Na, K, Cl Analyzer	В
Ultrasonic Inhalator	A



Equipment List for City Hospital No. 3 for Children (Cont.)

DESCRIPTION	PRIORITY
	A/B
5. Basic Essencial Equipment	
Height Measuring Rod	В
Weighing Scale	В
Stethoscope	В
Sphygmomanometer	: B
Diagnostic Set	В
Clinical Thermometer	В
Laryngoscope	В
Small Operating Instrument Set	В
Operating Instrument Set	В
Boiling Sterilizer	В
Instrument Sterilizing Case	В
Dressing Jar with Stand	В
Stretcher	В
Instrument Table	В
Instrument Carriage	В
Emergency Cart	В
Mobile Stand Lamp	В

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Equipment List for Maternity House No. 2

Pediatric Department Infant Incubator	A/B
Intant Incupator	
	A
Syringe Pump	В
Phototherapy Unit	A
Ambu Bag	В
Infant Warmer with Intensive Therapy Device	В
Infant Ventilator	В
Automatic Resuscitator	В
Oxygen Flowmeter	В
Neonatal Monitor	Α
2. Obstetrics	
Fetal Monitor	A
Ultrasound System	В
3. Sterilizing Room	
Steam Sterilizer/Horizontal Type	В
4. Gynecology	
Colposcope	В
5. Reanimation Room & Others	
Reanimation Set	В
Ventilator	В
Bedside Monitor	A
Electrocardiograph	А
Operating Instrument Set (Ob/Gye)	A
Anesthesia Apparatus	В
CO2, O2, Na, K Cl Analyzer	В
Infusion Pump	В

Equipment List for Maternity House No. 2 (Cont.)

DESCRIP	TION	PRIORITY A/B
6. Basic Essencial Equipment		
Height Measuring Rod		В
Weighing Scale		В
Stethoscope		В
Sphygmomanometer		В
Clinical Thermometer		В
Laryngoscope		В
Small Operating Instrument Set		В
Boiling Sterilizer		В
Instrument Sterilizing Case		В
Dressing Jar with Stand		В
Stretcher		В
Instrument Table		В
Instrument Carriage		В
Emergency Cart		В
Mobile Stand Lamp		В

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Equipment List for Maternity House No. 4

DESCRIPTION	PRIORITY A/B
Vacuum Extractor	В
Suction Pump	A
Fetal Monitor	A
Neonatal Monitor	В
Automatic Infant Scale	В
Automatic Resuscitator	В
Fetal Doppler	В
Lamp f/ Examination	A
Automatic Resuscitator	В
Infant Incubator	A
Ultrasound Doppler	В
Electrocardiograph	В
Automatic Recording Densitometer	
Electrophoresis Apparatus	В
Ventilator for Adults	В
Ventilator for Children	В
Anesthesia Apparatus	В
CO2, O2, K, Na, Cl Analyzer	В
Operating Table	A
Operating Light	A
Bedside Monitor	В
Ultrasonic Nebulizer	A
Colposcope	В
Basic Essencial Equipment	
Height Measuring Rod	В
Weighing Scale	В
Stethoscope	В
Sphygmomanometer	В
Small Operating Instrument Set	В
Operating Instrument Set	В
Boiling Sterilizer	В
Instrument Sterilizing Case	В
Dressing Jar with Stand	В
Stretcher	В
Instrument Table	В
Instrument Carriage	В
Emergency Cart	В
Mobile Stand Lamp	В

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