

**Table-2 Process of Consideration of the Equipment and List of the Equipment Included in the Project (Clinic No. 2)**

- A\*: Equipment which will be included in the Grant Aid**
1. Replacement of the equipment which is used in daily therapeutic and diagnostic activities but aged and in poor condition.
  2. Supplement of the equipment whose necessity can be justified by the expansion of the therapeutic and diagnostic activities and diagnostic activities.
  3. Equipment of which needs and appropriateness concerning therapeutic and diagnostic activities (the number of patients, the number of the specimen) are fully confirmed.
  4. Equipment of which operation and maintenance cost is affordable by the Moldavian side.
  5. Equipment which can be dealt with easier and established technologies.
  6. Equipment which is to be effectively applied to many patients.
  7. Equipment of which cost performance is high.
  8. Equipment of which medical usefulness has already established.
- B\*: which will be excluded in the Grant Aid**
1. Equipment of which maintenance is troublesome technically and financially.
  2. Consumables.
  3. Equipment of which spare parts and consumables is difficult to purchase in Moldova.
  4. Equipment of which number is over a minimum of necessity (duplicates and/or inefficiency).
  5. Equipment of which requests a big renovation of infrastructure such as water, electricity and drainage.
  6. Equipment of which effectiveness is limited.
  7. Equipment of which cost performance is low.
  8. Equipment of which exists easily alternative one.
  9. Equipment which uses materials which may cause environmental problem, such as Freon pollution, sewage, exposition to radioactive and waste disposal.
  10. Equipment for scientific research.
  11. Equipment which is overlapped with other department/section.

Item No.	Basic Design Study			Examination Process			Final			Item No.	Final List Name of Equipment
	Name of Equipment	Qty	Priority	A*	B*	Q/ty	AA	BB	CC		
DL	Laboratory										Laboratory
DL 1	Electrophoresis, Complete Automatic	-	C								
DL 2	Glucose Analyzer	1	B		1						
DL 3	Bilirubin Analyzer	1	B		1						
DL 4	Electrolyte Analyzer	-	C								
DL 5	Blood Gas Analyzer	1	B		1						
DL 6	UV-VIS Spectrophotometer	-	C								
DL 7	Spectrophotometer	-	C	1	4	2	2			LA 1	Spectrophotometer
DL 8	pH Meter	1	B			1	1			LA 2	pH Meter
DL 9	Automatic Diluter Dispenser	-	C								
DL 10	Centrifuge, Refrigerated	-	C								
DL 11	Centrifuge, Hematoocrit	1	A	1		1	1			LA 3	Centrifuge, Hematoocrit
DL 12	Centrifuge, Table Top	3	A	1		4	4			LA 4	Centrifuge, Table Top
DL 13	Microscope, Binocular	2	A	1		11	11			LA 5	Microscope, Binocular
DL 14	Microscope, Inverted	1	A		8						
DL 15	Incubator	2	A	1		4	4			LA 6	Incubator
DL 16	Sterilizer, Vertical	2	A	1		1	1			LA 7	Autoclave, Vertical
DL 17	Water Bath	2	A	1		2	2			LA 8	Water Bath
DL 18	Blood Diluting Pipette	20	A	1		10	5	5		LA 9	Blood Diluting Pipette
DL 19	Pipette Washer	5	A			5	5			LA 10	Pipette Washer
DL 20	Hemometer	1	A	1		1	1			LA 11	Hemometer
DL 21	Hemoglobinometer	1	B	5	7	1	1			LA 12	Hemoglobinometer
DL 22	Differential Leucocyte Counter	2	A	1		6	6			LA 13	Differential Leucocyte Counter
DL 23	Coagulometer	1	B		1						

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1. Replacement of the equipment which is used in daily therapeutic and diagnostic activities but aged and in poor condition.
  2. Supplement of the equipment whose necessity can be justified by the expansion of the therapeutic and diagnostic activities.
  3. Equipment of which needs and appropriateness concerning therapeutic and diagnostic activities (the number of patients, the number of the specimen) are fully confirmed.
  4. Equipment of which operation and maintenance cost is affordable by the Moldavian side.
  5. Equipment which can be dealt with easier and established technologies.
  6. Equipment which is to be effectively applied to many patients.
  7. Equipment of which cost performance is high.
  8. Equipment of which medical usefulness has already established.
- B\*: which will be excluded in the Grant Aid**
1. Equipment of which maintenance is troublesome technically and financially.
  2. Consumables.
  3. Equipment of which spare parts and consumables is difficult to purchase in Moldova.
  4. Equipment of which number is over a minimum of necessity (duplicates and/or inefficiency).
  5. Equipment of which requests a big renovation of infrastructure such as water, electricity and drainage.
  6. Equipment of which effectiveness is limited.
  7. Equipment of which cost performance is low.
  8. Equipment of which exists easily alternative one.
  9. Equipment which uses materials which may cause environmental problem, such as Freon pollution, sewage, exposition to radioactive and waste disposal.
  10. Equipment for scientific research.
  11. Equipment which is overlapped with other department/section.

Item No.	Basic Design Study			Examination Process			Final			Contents			Final List	
	Name of Equipment	Qty	Priority	A*	B*	Qy	AA	BB	CC	Item No.	Name of Equipment	Qy	Name of Equipment	
DL	Laboratory										Laboratory			
DL 1	Electrophoresis, Complete Automatic	1	C											
DL 2	Glucose Analyzer	1	B		1									
DL 3	Bilirubin Analyzer	1	B		1									
DL 4	Electrolyte Analyzer	1	C											
DL 5	Blood Gas Analyzer	1	B		1									
DL 6	UV-VIS Spectrophotometer	1	C											
DL 7	Spectrophotometer	1	C											
DL 8	pH Meter	1	B											
DL 9	Automatic Diluter Dispenser	1	C											
DL 10	Centrifuge, Refrigerated	1	C											
DL 11	Centrifuge, Hematocrit	1	A											
DL 12	Centrifuge, Table Top	3	A											
DL 13	Microscope, Binocular	2	A											
DL 14	Microscope, Inverted	1	A		8									
DL 15	Incubator	2	A											
DL 16	Sterilizer, Vertical	2	A											
DL 17	Water Bath	2	A											
DL 18	Blood Diluting Pipette	20	A											
DL 19	Pipette Washer	5	A											
DL 20	Hemometer	1	A											
DL 21	Hemoglobinometer	1	B		5									
DL 22	Differential Leucocyte Counter	2	A		1									
DL 23	Coagulometer	1	B											

Basic Design Study										Final List		
Item No.	Name of Equipment	Q'ty	Priority	Examination Process			Final Q'ty	Contents			Item No.	Name of Equipment
				A*	B*			AA	BB	CC		
DL 24	Densitometer	-	C									
DL 25	Biochemistry Analyzer	1	B		1	8						
DL 26	Blood Cell Counter	2	B	5	7		1			1	LA 14	Blood Cell Counter
DL 27	Hot Air Sterilizer	4	A	1			5			2	LA 15	Hot Air Sterilizer
DL 28	Dispenser, Automatic	2	A	1			2			7	LA 16	Dispenser, Automatic
DL 29	Micropipette Set	1	A	1			7				LA 17	Micropipette Set
DL 30	Laboratory Center Table	-	C									
DL 31	Water Distiller	2	A	1			1			1	LA 18	Water Distiller
DL 32	Analytical Balance	2	A	1			1			1	LA 19	Analytical Balance
FD	Functional Diagnostic											Functional Diagnostic
FD 1	Electroencephalograph, 12 channel	-	C									
FD 2	ECG Analysis System	-	C									
FD 3	Holter ECG Analyzer System	1	B	7	8		1			1	FD 1	Holter ECG Analyzer System
FD 4	Electrocardiograph, 6-ch	1	A	1			1				FD 2	Electrocardiograph, 6 channel
FD 5	Electrocardiograph, Portable Type	2	A	1			1				FD 3	Electrocardiograph, Portable Type
FD 6	Ultrasound Scanner with Doppler Unit	1	A	1			1				FD 4	Ultrasound Scanner with Doppler
FD 7	Fiberscope, Gastrointestinal with Light Source	1	A	1			1				FD 5	Fiberscope, Gastrointestinal with Light Source
FD 8	Fiberscope, Colonoscopy with Light Source	-	C									
FD 9	Endoscopic Table	-	C									
FD 10	Endoscopic Cabinet	1	A	2			1				FD 6	Endoscope Cabinet
FD 11	Screen	-	C									
FD 12	Revolving Chair	-	C									
FD 13	Instrument Cabinet	1	A	1			1				FD 7	Instrument Cabinet
FD 14	Lecturescope	-	C	2	5	7	1				FD 8	Lecturescope
FD 15	Light Source for Fiberscope	-	C									
ENT	ENT											ENT
ENT 1	Head Mirror	20	B			2						
ENT 2	Talugi Ear Speculum	50	B			2						
ENT 3	Ear Speculum	-	C									
ENT 4	Breathing Aural Magnifier	2	B			2						
ENT 5	Suction Pressure Pump	5	B				5	3	2		EN 1	Suction Pressure Pump
ENT 6	Lucas Entastachian Catheter	5	B			2						
ENT 7	Diagnostic Set	-	C	1			2				EN 2	Diagnostic Set
ENT 8	Lucas Double Air Bag	5	B			2						
ENT 9	Ear Surgical Instrument Set	2	B				2				EN 3	Ear Surgical Instrument Set
ENT 10	Automatic Recording Audiometer with Printer	-	C									
ENT 11	Infant Audiometer	1	B			8						
ENT 12	Laryngo Stroboscope	1	B			8						
ENT 13	Foil Automatic Full Masking Audiometer	-	C									

Basic Design Study										Examination Process			Final List		
Item No.	Name of Equipment	Qty	Priority	A*	B*	Final Qty	AA	BB	CC	Item No.	Name of Equipment				
DL 24	Densitometer	-	C		1	1									
DL 25	Biochemistry Analyzer	1	B		1	1									
DL 26	Blood Cell Counter	2	B	5	7	1			1	LA 14	Blood Cell Counter				
DL 27	Hot Air Sterilizer	4	A	1		5			5	LA 15	Hot Air Sterilizer				
DL 28	Dispenser, Automatic	2	A	1		2			2	LA 16	Dispenser, Automatic				
DL 29	Micropipette Set	1	A	1		7			7	LA 17	Micropipette Set				
DL 30	Laboratory Center Table	-	C												
DL 31	Water Distiller	2	A	1		1			1	LA 18	Water Distiller				
DL 32	Analytical Balance	2	A	1		1			1	LA 19	Analytical Balance				
FD	Functional Diagnostic										Functional Diagnostic				
FD 1	Electroencephalograph, 12 channel	-	C												
FD 2	ECG Analysis System	-	C												
FD 3	Holter ECG Analyzer System	1	B	7	8	1			1	FD 1	Holter ECG Analyzer System				
FD 4	Electrocardiograph, 6-ch	1	A	1		1			1	FD 2	Electrocardiograph, 6 channel				
FD 5	Electrocardiograph, Portable Type	2	A	1		1			1	FD 3	Electrocardiograph, Portable Type				
FD 6	Ultrasound Scanner with Doppler Unit	1	A	1		1			1	FD 4	Ultrasound Scanner with Doppler				
FD 7	Fiberscope, Gastrointestinal with Light Source	1	A	1		1			1	FD 5	Fiberscope, Gastrointestinal with Light Source				
FD 8	Fiberscope, Colono with Light Source	-	C												
FD 9	Endoscopic Table	-	C												
FD 10	Endoscopic Cabinet	1	A	2		1			1	FD 6	Endoscope Cabinet				
FD 11	Screen	-	C												
FD 12	Revolving Chair	-	C												
FD 13	Instrument Cabinet	1	A	1		1			1	FD 7	Instrument Cabinet				
FD 14	Lecturescope	-	C	2	5	7			1	FD 8	Lecturescope				
FD 15	Light Source for Fiberscope	-	C												
ENT	ENT										ENT				
ENT 1	Head Mirror	20	B			2									
ENT 2	Takagi Ear Speculum	50	B			2									
ENT 3	Ear Speculum	-	C												
ENT 4	Brønning Aural Magnifier	2	B			2									
ENT 5	Suction Pressure Pump	5	B			5			3	EN 1	Suction Pressure Pump				
ENT 6	Luaco Enstachian Catheter	5	B			2			2	EN 2	Diagnostic Set				
ENT 7	Diagnostic Set	-	C	1		2			2	EN 2	Diagnostic Set				
ENT 8	Luaco Double Air Bag	5	B			2			2	EN 3	Ear Surgical Instrument Set				
ENT 9	Ear Surgical Instrument Set	2	B			2			2	EN 3	Ear Surgical Instrument Set				
ENT 10	Automatic Recording Audiometer with Printer	-	C												
ENT 11	Infant Audiometer	1	B			8									
ENT 12	Laryngo Stroboscope	1	B			8									
ENT 13	Full Automatic Full Masking Audiometer	-	C												

CC

Basic Design Study																			
Item No.	Name of Equipment	Examination Process			Final Qty	Contents			Final List Name of Equipment										
		Qty	Priority	A*		B*	AA	BB		CC	Item No.								
ENT 14	Hajeo Elmoid Cellulitis Operating Instrument Set	2	B																
ENT 15	Tonsillectomy Set	2	B	1		11				2				EN 4					Tonsillectomy Set
ENT 16	Laryngotracheal Tube	-	C																
ENT 17	Tracheotomy Set	2	B	1						2				EN 5					Tracheotomy Instrument Set
ENT 18	Jackson Laryngoscope for Children	-	C																
ENT 19	Ono Esophageal Speculum for Children	1	B	1						1				EN 6					Esophageal Speculum for Child
ENT 20	Ono Jackson Bronchoscope Set	2	B	1						1				EN 7					Bronchoscope with Light Source, Rigid Type
ENT 21	Breuning Bronchoscope and Esophagoscopy Forceps	2	B			11													
ENT 22	ENT Operating Table	2	B			11													
ENT 23	Binocular Operating Microscope	1	B	1						1				EN 8					Operating Microscope, Binocular
ENT 24	ENT Treatment Chair	1	B			4													
ENT 25	ENT Treatment Unit, Single Sided type	1	B			4													
ENT 26	Coagulator	2	B			4													
ENT 27	Spectacle	-	C																
OP Ophthalmology																			
OP 1	Refracting Unit	1	B	1						1				OP 1					Slit Lamp Microscope
OP 2	Trial Lens Set	1	B	1						2				OP 2					Trial Lens Set
OP 3	Lensmeter	-	C																
OP 4	Universal Trial Frame, Adult	2	B			4													
OP 5	Trial Frame, Child	2	B			4													
OP 6	Cross Cylinder	-	C																
OP 7	Universal Ophthalmic Measure	-	C																
OP 8	Pupillo Distance Meter	-	C																
OP 9	Indirect Ophthalmoscope with Halogen Lamp	4	B	1						9				OP 3					Hand Mirror
OP 10	Skiascopy Rask	2	B	1						2				OP 4					Skiascopy Rask
OP 11	Synoptoscope	1	B	1						1				OP 5					Synoptoscope
OP 12	Projection Perimeter	-	C																
OP 13	Pulse Hand Magnet	1	B	7						1				OP 6					Pulse Hand Magnet
OP 14	Bipolar Coagulator	1	B			4													
OP 15	Dianthemy Unit	-	C																
OP 16	Echo Scan	1	B			1	6												
OP 17	Operating Microscope	1	B	1						1				OP 7					Operating Microscope
OP 18	Razor Blade Instrument	-	C																
OP 19	Razor Blade Holder	-	C																
OP 20	Razor Blade Breaker and Holder	-	C																
OP 21	Ophthalmology Treatment Set	2	B	1						2				OP 8					Ophthalmology Treatment Set
OP 22	Operating Table, Universal	1	B			11													
OP 23	Vitreon	-	C																
OP 24	Microsurgical Instrument Ophthalmology Set	1	B			4													

Basic Design Study											
Item No.	Name of Equipment	Qty	Priority	Examination Process			Final Q'ty	Contents			Final List Name of Equipment
				A*	B*	B*		AA	BB	CC	
ENT 14	Hajeck Eibmaid Cellulitis Operating Instrument Set	2	B		11						
ENT 15	Tonsillectomy Set	2	B	1		2			EN 4	Tonsillectomy Set	
ENT 16	Luer Tracheal Tube	-	C								
ENT 17	Tracheotomy Set	2	B	1		2			EN 5	Tracheotomy Instrument Set	
ENT 18	Jackson Laryngoscope for Children	-	C								
ENT 19	Ono Esophageal Speculum for Children	1	B	1		1			EN 6	Esophageal Speculum for Child	
ENT 20	Ono Jackson Bronchoscope Set	2	B	1		1			EN 7	Bronchoscope with Light Source, Rigid Type	
ENT 21	Brenning Bronchoscope and Esophagoscopy Forceps	2	B		11						
ENT 22	ENT Operating Table	2	B		11						
ENT 23	Binocular Operating Microscope	1	B	1		1			EN 8	Operating Microscope, Binocular	
ENT 24	ENT Treatment Chair	1	B		4						
ENT 25	ENT Treatment Unit, Single Sided type	1	B		4						
ENT 26	Coagulator	2	B		4						
ENT 27	Spectacle	-	C								
OP	Ophthalmology									Ophthalmology	
OP 1	Refracting Unit	1	B	1		1			OP 1	Slit Lamp Microscope	
OP 2	Trial Lens Set	1	B	1		2			OP 2	Trial Lens Set	
OP 3	Lensmeter	-	C								
OP 4	Universal Trial Frame, Adult	2	B		4						
OP 5	Trial Frame, Child	2	B		4						
OP 6	Cross Cylinder	-	C								
OP 7	Universal Ophthalmic Measure	-	C								
OP 8	Pupillo Distance Meter	-	C								
OP 9	Indirect Ophthalmoscope with Halogen Lamp	4	B	1		9			OP 3	Hand Mirror	
OP 10	Skiascopy Rask	2	B	1		2			OP 4	Skiascopy Rask	
OP 11	Synoptoscope	1	B	1		1			OP 5	Synoptoscope	
OP 12	Projection Perimeter	-	C								
OP 13	Pulse Hand Magnet	1	B	7		1			OP 6	Pulse Hand Magnet	
OP 14	Bipolar Coagulator	1	B		4						
OP 15	Diathermy Unit	-	C								
OP 16	Echo Scan	1	B		1	6					
OP 17	Operating Microscope	1	B	1		1			OP 7	Operating Microscope	
OP 18	Razor Blade Instrument	-	C								
OP 19	Razor Blade Holder	-	C								
OP 20	Razor Blade Breaker and Holder	-	C								
OP 21	Ophthalmology Treatment Set	2	B	1		2			OP 8	Ophthalmology Treatment Set	
OP 22	Operating Table, Universal	1	B		11						
OP 23	Vitreotom	-	C								
OP 24	Microsurgical Instrument Ophthalmology Set	1	B		4						

Basic Design Study										Final List		
Item No.	Name of Equipment	Qty	Priority	Examination Process		Final Qty	Contents			Item No.	Name of Equipment	
				A*	B*		AA	BB	CC			
OP 25	Microsurgical Instrument for Keratoplasty Set	1	C									
OP 26	Instrument Set for Nasal Eye Channel Set	2	B	1	4	1				OP 9	Stretcher	
OP 27	Stretcher	2	B									
OP 28	Instrument Tray Stand	2	B		4							
OP 29	Revolving Chair	2	B		4							
OP 30	Foot Step, Two-Steps	-	C									
OP 31	Ophthalmoscope	5	B	1		2	2			OP 10	Ophthalmoscope	
		2	A	1		2	2			OP 11	Chart Projector	
Operation Theater												
OT 1	Operating Instrument Set	5	A	1		5				OT 1	Operating Instrument Set	
OT 2	Tracheotomy Instrument Set	1	A	1		1				OT 2	Tracheotomy Instrument Set	
OT 3	Solid State Bipolar Coagulation Unit	2	A	1		3				OT 3	Electrosurgical Unit	
OT 4	Operating Table, Universal	4	A	1		5				OT 4	Operating Table	
OT 5	Operating Light with Battery, Stand Type	3	A	1		5				OT 5	Operating Light with Battery, Stand Type	
OT 6	Electric Suction Unit for Surgical Operation	5	A	1		5				OT 6	Suction Unit	
OT 7	Portable Suction Unit	-	C									
OT 8	Autoclave	3	A	1		2	2			OT 7	Autoclave, Vertical	
OT 9	Stretcher	2	A	1		2				OT 8	Stretcher	
OT 10	Instrument Table	5	B		4							
OT 11	Instrument Cabinet	4	A	1		4				OT 9	Instrument Cabinet	
		2	A	1		2				OT 10	Laryngoscope Set for Infant and Adult	
Radiology												
XR 1	General X-ray System	-	C									
XR 2	Lead Glass	-	C									
XR 3	Lead Rubber Sheet	-	C									
XR 4	Protective Gown	-	C									
XR 5	Protective Apron	2	A	1		2				RA 1	Protective Apron	
XR 6	Protector for Sexual Organs for Children	4	A	1		2	2			RA 2	Protector for Sexual Organs for Children	
XR 7	Protective Cap for Children	-	C									
XR 8	Protective Glasses	-	C									
XR 9	Film Loading Desk	-	C									
XR 10	Preserving Box	-	C									
XR 11	Intensifying Screens, 5 size/set	4	A	1		2	2			RA 3	Cassette and Intensifying Screens, 5 size/set	
XR 12	X-ray Film Cassette	-	C									
XR 13	X-ray Film Keeping Shelf	-	C									
XR 14	X-ray Film Processor	1	A	1		1				RA 4	Film Processor, Manual	
XR 15	Protector	-	C									
XR 16	Film Marker	-	C									
XR 17	Test Chart	-	C									

Basic Design Study		Examination Process			Final			Contents			Final List	
Item No.	Name of Equipment	Qty	Priority	A*	B*	Qty	AA	BB	CC	Item No.	Name of Equipment	
OP 25	Microsurgical Instrument for Keratoplasty Set	1	C		4							
OP 26	Instrument Set for Nasal Eye Channel Set	2	B			1				OP 9	Stretcher	
OP 27	Stretcher	2	B		4							
OP 28	Instrument Tray Stand	2	B		4							
OP 29	Revolving Chair	2	B		4							
OP 30	Foot Step, Two-Steps	5	C							OP 10	Ophthalmoscope	
OP 31	Ophthalmoscope	2	A		1	2	2			OP 11	Chart Projector	
OT Operation Theater												
OT 1	Operating Instrument Set	5	A	1		5	5			OT 1	Operating Instrument Set	
OT 2	Tracheotomy Instrument Set	1	A	1		1	1			OT 2	Tracheotomy Instrument Set	
OT 3	Solid State Bipolar Coagulation Unit	2	A	1		3	3			OT 3	Electrosurgical Unit	
OT 4	Operating Table, Universal	4	A	1		5	5			OT 4	Operating Table	
OT 5	Operating Light with Battery, Stand Type	3	A	1		5	5			OT 5	Operating Light with Battery, Stand Type	
OT 6	Electric Suction Unit for Surgical Operation	5	A	1		5	5			OT 6	Suction Unit	
OT 7	Portable Suction Unit	-	C									
OT 8	Autoclave	3	A	1		2	2			OT 7	Autoclave, Vertical	
OT 9	Stretcher	2	A	1		2	2			OT 8	Stretcher	
OT 10	Instrument Table	5	B		4							
OT 11	Instrument Cabinet	4	A	1		4	4			OT 9	Instrument Cabinet	
		2	A	1		2	2			OT 10	Laryngoscope Set for Infant and Adult	
XR Radiology												
XR 1	General X-ray System	-	C									
XR 2	Lead Glass	-	C									
XR 3	Lead Rubber Sheet	-	C									
XR 4	Protective Gown	-	C									
XR 5	Protective Apron	2	A	1		2	2			RA 1	Protective Apron	
XR 6	Protector for Sexual Organa for Children	4	A	1		2	2			RA 2	Protector for Sexual Organa for Children	
XR 7	Protective Cap for Children	-	C									
XR 8	Protective Glasses	-	C									
XR 9	Film Loading Desk	-	C									
XR 10	Preserving Box	-	C									
XR 11	Intensifying Screens, 5 size/set	4	A	1		2	2			RA 3	Cassette and Intensifying Screens, 5 size/set	
XR 12	X-ray Film Cassette	-	C									
XR 13	X-ray Film Keeping Shelf	-	C									
XR 14	X-ray Film Processor	1	A	1		1	1			RA 4	Film Processor, Manual	
XR 15	Protector	-	C									
XR 16	Film Marker	-	C									
XR 17	Test Chart	-	C									

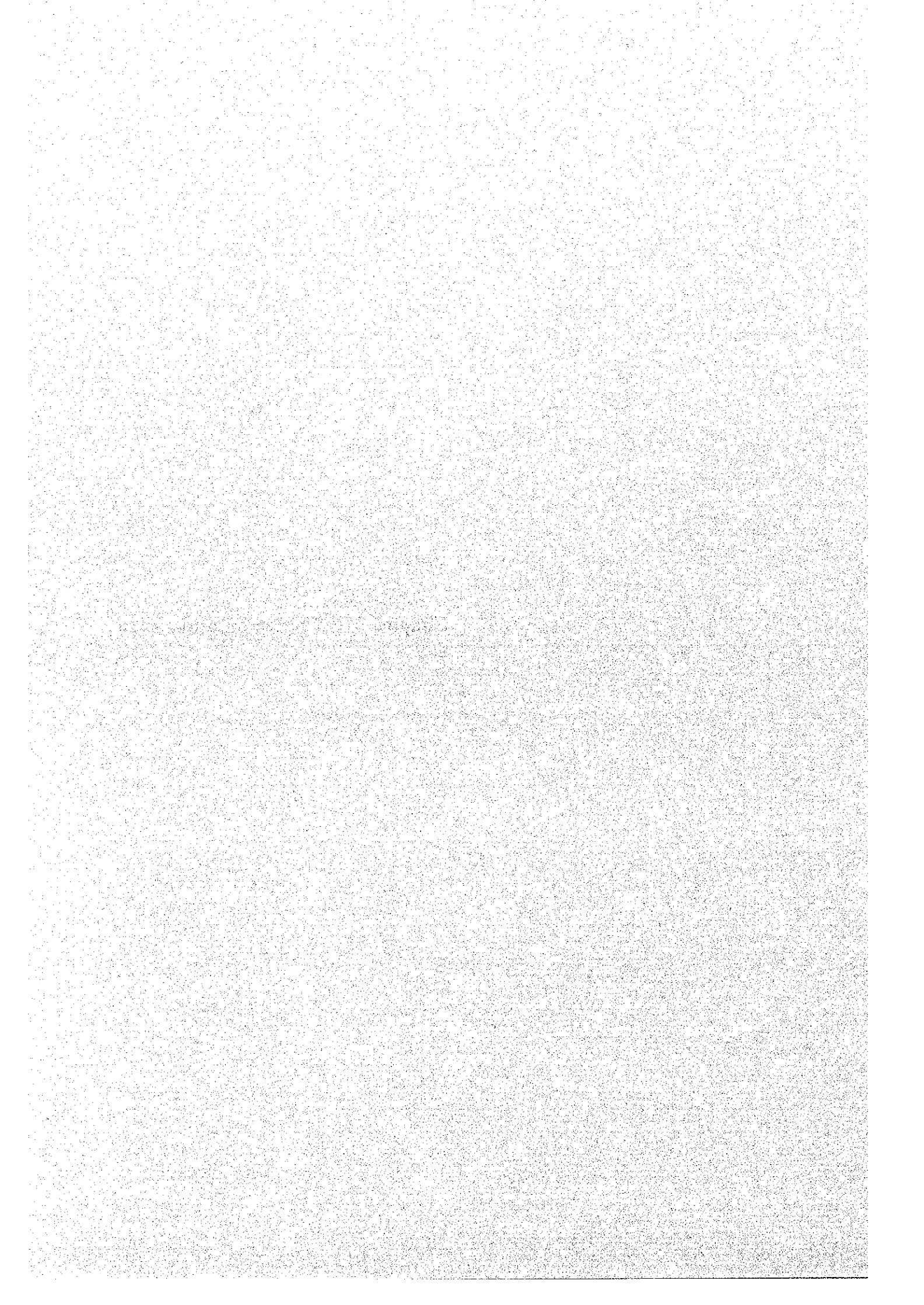


Item No.	Basic Design Study				Examination Process				Final			Contents			Final List	
	Name of Equipment				Q'ty	Priority	A*	B*	Q'ty	AA	BB	CC	Item No.	Name of Equipment		
	2	A	1	1										2	5	RA
HO	Others															
HO 1	Treatment Table	5	B	1				5				WA	1	Treatment Table		
HO 2	Examining Couch	10	B	1				10				WA	2	Examining Couch		
HO 3	Laryngoscope with Fiber Illumination	2	A		11											
HO 4	Lumber Anesthesia Needle	-	C													
HO 5	Lumber Puncture Instrument Set	5	A	1				3				WA	3	Lumber Puncture Instrument Set		
HO 6	Biopsy Needle	5	B	1				3				WA	4	Biopsy Needle		
HO 7	Bone Marrow Biopsy Set	-	C													
HO 8	X-ray Film Illuminator	2	A		4											
HO 9	Instrument Cabinet	5	B	1				3				WA	5	Instrument Cabinet		
HO 10	Medicine Cabinet	10	B	1				8				WA	6	Medicine Cabinet		
HO 11	Arm Rest Stand for Infusion	-	C													
HO 12	Instrument Table	-	C													
HO 13	Treatment Carriage	-	C													
HO 14	Instrument Tray Table, Mayo	5	B		4											
HO 15	Dressing Drum Set	5	B	1				3				WA	7	Dressing Drum Set		
HO 16	Instrument Carriage	-	C													
HO 17	Instrument Sterilizing Tray	-	C													
HO 18	Dressing Drum	30	A													
HO 19	Catheter Tray	3	B													
HO 20	Bed	-	C													
HO 21	Bed, Pediatric	-	C													
HO 22	Syringe Pump	5	A	1				3				WA	8	Syringe Pump		
HO 23	Ventilator, Infant	1	B	7	8			1				WA	9	Ventilator, Infant		
HO 24	Examination Table, Pediatric	-	C													
HO 25	Weighing Scale, Pediatric	-	C													
HO 26	Oxygen Tent	-	C	3	7	8		3				WA	10	Oxygen Tent		
HO 27	Bedside Cabinet	-	C													
HO 28	Overbed Table	-	C													
HO 29	Sphygmomanometer	-	C													
HO 30	Clinical Thermometer	-	C													
HO 31	Chart Projector	2	A													
HO 32	Pen Light	-	C													
HO 33	Percussion Hammer	-	C													
HO 34	Circulator System	-	C													
HO 35	Heart Model	-	C													
HO 36	Larynx Model	-	C													
HO 37	Eyeball Model	-	C													

Basic Design Study											
Item No.	Name of Equipment	Qty	Priority	Examination Process			Contents			Final List	
				A*	B*	B*	AA	BB	CC		Item No.
		2	A	1			2		RA	5	X-ray Film Illuminator
HO	Others										Wards
HO 1	Treatment Table	5	B	1			5		WA	1	Treatment Table
HO 2	Examining Couch	10	B	1			10		WA	2	Examining Couch
HO 3	Laryngoscope with Fiber Illumination	2	A		11						
HO 4	Lumber Anesthesia Needle	-	C								
HO 5	Lumber Puncture Instrument Set	5	A	1			3		WA	3	Lumber Puncture Instrument Set
HO 6	Biopsy Needle	5	B	1			3		WA	4	Biopsy Needle
HO 7	Bone Marrow Biopsy Set	-	C								
HO 8	X-ray Film Illuminator	2	A		4						
HO 9	Instrument Cabinet	5	B	1			3		WA	5	Instrument Cabinet
HO 10	Medicine Cabinet	10	B	1			8		WA	6	Medicine Cabinet
HO 11	Arm Rest Stand for Infusion	-	C								
HO 12	Instrument Table	-	C								
HO 13	Treatment Carriage	-	C								
HO 14	Instrument Tray Table, Mayo	5	B		4						
HO 15	Dressing Drum Set	5	B	1			3		WA	7	Dressing Drum Set
HO 16	Instrument Carriage	-	C								
HO 17	Instrument Sterilizing Tray	-	C								
HO 18	Dressing Drum	30	A								
HO 19	Catheter Tray	3	B								
HO 20	Bed	-	C								
HO 21	Bed, Pediatric	-	C								
HO 22	Syringe Pump	5	A	1			3		WA	8	Syringe Pump
HO 23	Ventilator, Infant	1	B	7	8		1		WA	9	Ventilator, Infant
HO 24	Examination Table, Pediatric	-	C								
HO 25	Weighing Scale, Pediatric	-	C								
HO 26	Oxygen Tent	-	C	3	7	8	3		WA	10	Oxygen Tent
HO 27	Bedside Cabinet	-	C								
HO 28	Overbed Table	-	C								
HO 29	Sphygmomanometer	-	C								
HO 30	Clinical Thermometer	-	C								
HO 31	Chart Projector	2	A								
HO 32	Pen Light	-	C								
HO 33	Percussion Hammer	-	C								
HO 34	Circulator System	-	C								
HO 35	Hear Model	-	C								
HO 36	Larynx Model	-	C								
HO 37	Eyeball Model	-	C								

Basic Design Study												
Item No.	Name of Equipment	Qty	Priority	Examination Process			Final Qty	Contents			Final List	
				A*	B*			AA	BB	CC	Item No.	Name of Equipment
HO 38	Ear Model	-	C									
HO 39	Blood Collection & Intravenous Injection Simulator	-	C									
HO 40	Doil for Nursing	-	C									
HO 41	Hot Air Sterilizer	12	B			13				W	11	Hot Air Sterilizer
HO 42	Hot Air Sterilizer	4	B									

## **Chapter 3    Implementation Plan**



## **Chapter 3 Implementation Plan**

### **3-1 Implementation Plan**

#### **3-1-1 Implementation Concept**

This planning, in accordance with the framework of grant aid cooperation on the part of the Japanese government, is approved by the Japanese government and by the government of Moldova, and will be officially implemented following conclusion of an exchange of notes (E/N).

Following the conclusion of the exchange of notes by the two governments, a consultant of Japanese corporations recommended by the Japan International Cooperation Agency, in accordance with Japanese procedures for grant aid, shall conclude a contract with the Ministry of Health in Moldova and with the consultant. This contract shall become effective once it has been approved by the Japanese government, and tender and enforcement supervision operations shall be implemented by the consultant, based on the contract.

In addition, materials and equipment shall be procured from a Japanese equipment supplier which is to be selected by means of tender and which shall sign a contract with the Ministry of Health of Moldova governing the relevant operations. This contract shall also become effective once it has been approved by the government of Japan. This equipment supplier shall provide, transport, and install the necessary equipment and materials, and provide technical guidance and instruction concerning the operation and maintenance control of the equipment. In addition, manuals and other technical documentation necessary for maintenance and upkeep of the equipment following procurement, as well as manufacturer and dealer lists, shall be created.

The Ministry of Health of Moldova shall be the institution responsible for control and implementation of this project, and the Mother and Child Republican Hospital shall be the institution targeted for implementation and management.

#### **3-1-2 Implementation Conditions**

The institution targeted by this planning is a top-referral institution, and because it would be problematic to interrupt the everyday operations carried out at the hospital to introduce

and install equipment, it will be necessary, at the stage before installation is formulated, to meet ahead of time with persons involved with the consultant, with persons involved with the targeted hospital and with persons involved with the equipment supplier, to discuss the work schedule and other details. Furthermore, when installation construction is carried out, strict attention will have to be paid to noise and sanitation control, and when introducing medical equipment, special attention will need to be paid to safety control.

### **3-1-3 Scopes of Works**

Government of Japan

- 1) Expenses involved in procuring the planned materials and equipment
- 2) Expenses for transportation by sea and inland transportation to the various medical institutions in Moldova targeted by the planning
- 3) Expenses for installation and setup of the equipment
- 4) Expenses for technical instruction and guidance in the trial operation, operation, maintenance inspection, and maintenance control of all of the procured equipment

Ministry of Health of Moldova

- 1) Instructions concerning information and documentation necessary in order to install and set up the equipment
- 2) Removal of any old equipment in locations where new equipment is to be installed, and preparation of the indoor facilities for the new equipment following removal of the old equipment
- 3) Assurance of space in which the procured equipment can be unloaded
- 4) Provision of areas where equipment can be stored until it is installed
- 5) Assurance of roads and channels by which the procured equipment to be installed can be transported

### **3-1-4 Consultant Supervision**

The consultants, after tendering operations have been carried out by which the equipment supplier shall be selected, shall carry out enforcement supervision to assure that equipment procurement and installation proceed smoothly.

The key points involved in enforcement supervision shall be, first, confirmation that the equipment procured from the equipment supplier conforms to the contract documents. If necessary, the consultant or consultants shall inspect the medical equipment before it is shipped. Attention needs to be paid to the packaging of equipment being transported by

sea and by land, and to the number of days required for transportation and customs processing, and the consultants shall provide instruction for equipment providers, and shall oversee the transportation and processing of the equipment. Furthermore, when the equipment is installed at the destination, the consultants shall make every effort to maintain an ongoing grasp of conditions at the installation site, and shall provide the appropriate advice and guidance for organizations in charge of installation on the Moldova side, and equipment supplier, and shall report to related organizations in both countries concerning the progress of the installation work.

The consultants shall form a team consisting of three engineers, who are responsible for supervising the work, equipment planning, and maintenance control planning, and this team shall carry out the enforcement supervision operations.

### **3-1-5 Procurement Plan**

#### **(1) Local Procurement**

Because no medical equipment is manufactured in Moldova, local procurement shall not be carried out as part of this project.

#### **(2) Procurement from other countries**

Based on trends in the medical equipment markets in Moldova, Ukraine, Russia, and Rumania, and on conditions at dealers of equipment relevant to this project, some equipment may be considered for procurement from third countries.

#### **(3) Transportation period**

For equipment procured from Japan and from some third countries (U.S.), it takes 40 to 45 days to transport equipment by sea, and approximately 21 days for customs processing and inland transportation, for a total of approximately 60 to 70 days. Procurement from other third countries, mainly in Europe, requires approximately 15 days. Because the equipment is unloaded in the neighboring country of Rumania, procurement plans should allow for sufficient margins in terms of time.

### **3-1-6 Implementation Schedule**

After the Exchange of Notes (E/N) for the implementation of this project is signed by the Government of Romania and the Government of Japan, the project will be implemented in the following stages:

#### **(1) Operations related to tender**



Operations related to tender include public announcement of the tender, distribution of tender documents, tender, evaluation of the tender results, negotiations for equipment procurement contracts, and equipment procurement planning. The time required to complete these operations is approximately three (3) months.

**(2) Equipment procurement/public announcement of installation**

After the equipment procurement contract between the Ministry of Health of Moldova and the equipment supplier has been approved by the government of Japan, the work shall be initiated by the equipment supplier. A period of nine (9) months is necessary from the procurement of the equipment until the public announcement of installation has been completed, and the equipment has been transferred to the receiving side.

The following table shows the implementation process from the conclusion of the exchange notes to the completed construction.

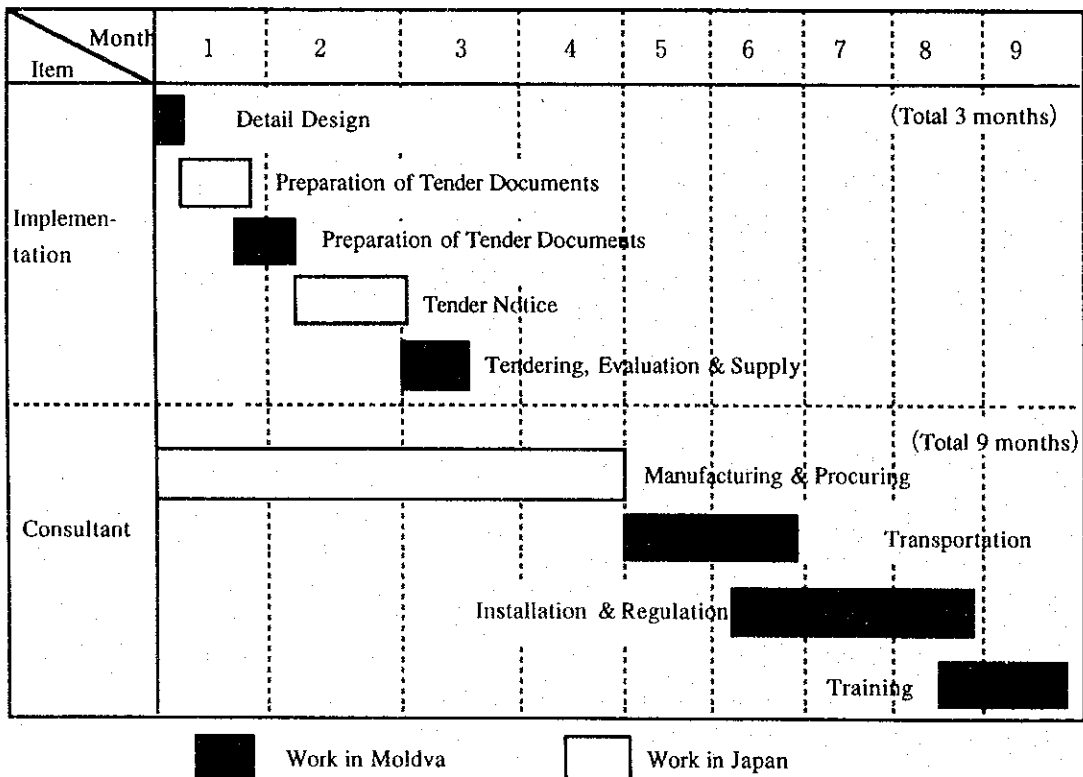


Table 3-1 Implementation Schedule

**3-1-7 Obligations of recipient country**

Moldova shall be responsible for implementation of the planning items listed below.

- 1) Providing the necessary information and documentation
- 2) Procedures necessary in order to facilitate the smooth transition of the procured equipment through customs, and for domestic transportation in Moldova and Rumania
- 3) Exemption from various taxes and duties for persons supplying equipment and providing the work
- 4) Assurance of the necessary declarations of usage and safety pertaining to equipment being brought into Moldova, and work being carried out, by citizens of Japan in the implementation of this planning
- 5) Bearing any expenses incurred in procedures for obtaining the bank agreement (B/A) and authorization of payment (A/P)
- 6) Arranging the personnel/budgets required in order to effectively implement this planning (including O/M costs of equipment procured using grant aid)
- 7) Taking the responsibility for appropriate and effective maintenance control operations for the equipment procured through this planning, and for expenses
- 8) Obtaining any permits and licenses necessary in order to implement this planning, and obtaining other authorizations
- 9) Bearing expenses incurred for duty exemption procedures
- 10) Compiling and managing data relating to usage conditions for equipment procured through this planning
- 11) Bearing any expenses necessary in order to implement this planning, other than the range noted above

### **3-2 Project Cost Estimation**

#### 1) Japanese Party

Cost for designing and procuring the equipment

#### 2) Cost borne by Moldova

None

#### 3) Conditions applied for cost estimation

- (1) Estimated in : January 1999;
- (2) Exchange rate : US\$ 1.00 = 130 yen,
- (3) Period for implementation : about twelve (12) months;
- (4) Ordering method : bundled in a lot; and
- (5) Others : This project shall be implemented in compliance

with the system of grant assistance of the Government of Japan.

### **3-3 Operation and maintenance cost**

Major part of the medical equipment procured on this project is to renew the existing medical equipment, so the existing items which break down frequently are replaced with new medical devices. Therefore, the cost for the repair and maintenance of the medical equipment is expected to decrease. The tables below show the items of the medical equipment which require consumables such as recording paper, electrodes and reagents. The total amount expected for the maintenance cost for each hospital is not very burdensome, so after the implementation of this project, each respective hospital will be able to manage expenses necessary for maintaining the medical equipment within the present amount of budget. The following tables show the estimated annual operation and maintenance cost for each hospital, respectively.

#### **(1) Maintenance cost**

Up to 1998 the facility's only income was the funds allocated to it by the Ministry of Health, but a system of charging for diagnosis and treatment services has been introduced to pay for a part of the hospital's operating expenses, and patients are scheduled to start paying in January 1999.

The Ministry of Health is also working for operational improvement by reducing the number of hospital beds as a part of policy for rationalization in reform of health services and is leasing the space made vacant by that to private physicians on a contract basis to be used as for their diagnosis and treatment facilities, the income from that being assigned to cover a part of the hospital's operating expenses.

Considering such circumstances, the out-patient diagnosis and treatment income, in-patient income, main income from tests and expenditures of the hospital in the year 2000, when the equipment procured in the present project is scheduled to be in operation, has been estimated on the basis of the set fees for diagnosis and treatment and on the assumption of the same number of patients coming to the hospital as in 1997 (the statistics for 1998 not yet being available). Since, however, consumables and spare parts in quantities sufficient for about one year's use will be provided along with introduction of the procured equipment in the year 2000, in actual fact it will not be until 2001 that funds will have to be raised for maintenance of the equipment. That situation regarding income and expenditures is indicated in Table 3-2.

## Hospital's Income

It has been assumed that the fees for diagnosis and treatment services can be collected from 55% of the total number of patients of Clinic No. 1 and 40% of the total number of patients of Clinic No. 2 considering the fact that newborns, women before, during and after childbirth, very poor patients, etc. will be exempted. It has also been assumed on the basis of the actual budget allocation from the Ministry of Health in 1997 and in other past years that it will be reduced by 13% and 9%, respectively, in the cases of Clinic No. 1 and Clinic No. 2 each year, the result thereof being indicated in Table 3-2. The estimated figures for total income of Clinic No. 1 and Clinic No. 2 in 1999 are 25,287,700 lei (approx. 429,890,900 yen) and 7,209,300 lei (approx. 122,558,100 yen), respectively. Those figures represent increases in income of about 60% and 80%, respectively, for Clinic No. 1 and Clinic No. 2 in comparison with 1997 even taking into account reductions in budget allocations from the Ministry of Health.

In the way of test equipment requiring special reagents and for which there might be some concern regarding maintenance, there are the blood gas analyzing device, the hemoglobin counting device and the electrolyte analyzing device in the case of Clinic No. 1 and the hemoglobin counting device in the case of Clinic No. 2. The income from such equipment has been calculated using the test fees that have been set for them and assuming the same number of tests with the procured equipment as in 1997. It comes to approximately 650,700 lei for Clinic No. 1 assuming a rate of fee collectability of 55% and to approximately 60,400 lei for Clinic No. 2 assuming a rate of 40%.

As for income from lease contracts, Clinic No. 1 is scheduled to receive 70,000 lei (approx. 1,190,000 yen) a year from a lease contract concerning a part of the maternity department diagnosis and treatment facilities concluded in December 1998 and the same amount for lease of part of the newborn diagnosis and treatment facilities on the basis of a contract to be concluded in February 1999.

### 1, Income at Clinic No. 1

#### (1) Income from Out-patient (Estimated)

Subject	Number of Out-patient (1997 F/Y)	
	Pediatrics	Gynecology
Number of Patient	116,512	71,032
Fee of First Examination (Expected)	7 Lei	7 Lei
Total income	815,584 Lei	497,224 Lei
Income from payable patient (55%)	448,571 Lei	273,473 Lei
Estimated actual income		722,044 Lei

\* Infant and obstetrics are free of charge.

(2) Income from Inpatient (Estimated)

Subject	Number of Out-patient (1997 F/Y)		
	Pediatric surgery	Pediatrics	Gynecology
Number of Patient	8,133	10,541	2,427
Average duration of inpatient	15 day	13 day	12 day
Fee / date (Expected)	60 Lei	60 Lei	60 Lei
Total income	7,319,700 Lei	8,221,980 Lei	1,747,440 Lei
Income from payable patient (55%)	4,025,835 Lei	4,522,089 Lei	961,092 Lei
Estimated actual income			9,509,016 Lei

\* Infant and obstetrics are free of charge.

(3) Income from examination (Estimated)

Examination	Total fee (lei)
ECG, EEG	Total
	199,826.10
Ultrasound	Total
	382,742.60
Endoscopy	Total
	165,897.70
Radiology	Total
	329,961.80
Laboratory	Total
	1,183,204.40
Grand total	Total
	2,261,632.60
Income from payable patient (55%)	Total
	1,243,897.93

\* Infant and obstetrics are free of charge.

2, Income at Clinic No. 2

(1) Income from Inpatient (Estimated)

Subject	Number of Out-patient (1997 F/Y)	
	Boy	Girl
Number of Patient	5,795	5,686
Average duration of inpatient	15 day	15 day
Fee / date (Expected)	48.46 Lei	48.46 Lei
Total income	4,212,385 Lei	4,133,153 Lei
Income from payable patient (40%)	1,684,954 Lei	1,653,261 Lei
Estimated actual income		3,338,000 Lei

(2) Income from examination (Estimated)

Examination	Total fee (lei)
ECG, EEG	Total
	63,429.60
Ultrasound	Total
	263,887.20
Endoscopy	Total
	25,573.20
Radiology	Total
	62,430.00
Laboratory	Total
	151,200.00
Grand total	Total
	475,800
Income from payable patient (40%)	Total
	190,320

### Hospital's Expenses

The equipment procured in this project will start to be used in Moldova's fiscal 2000. Since the budget for 1999 has not yet been confirmed, the operating expenses of the hospital for 2000 have been considered on the basis of the figures for 1998. Although one can expect slight increases in such main operating expense items as personnel wages, patient meals, facility maintenance and purchases of medical supplies since prices in Moldova are rising about 10% a year, the figures for 1998 have been taken of 2000 in view of the tight situation of its government finances, but since the cost of electricity, water and of the utilities and machinery running costs will certainly rise, the estimate is based on a 3% increase from the utilities cost figure for 1998 and an outlay of about 951,000 lei (576,000 lei for Clinic No. 1 and 375,000 lei for Clinic No. 2) in the way of equipment running cost for consumables and spare parts needed in maintenance of the newly introduced equipment.

Water, electricity, gas	:	232,000 Lei	(Clinic No.1 / 192,000, Clinic No.2 / 40,000)
Consumable, spare parts	:	951,000 Lei	(Clinic No.1 / 576,000, Clinic No.2 / 375,000)
Total	:	1,183,000 Lei	(Clinic No.1 / 768,000, Clinic No.2 / 415,000)

The corresponds to about 4% of the total operating expenses of the two clinics in 2000. As for the expense of procuring reagents and consumables for the test equipment, which it has been feared might be rather burdensome, it should be possible to just about cover it by the income from tests. In spite of the possibility of decline in the number of patients as a result of introduction of charges for diagnosis and treatment services, the estimated figure does not represent a very large increase in expenses in comparison with 1998, and therefore maintenance is considered to be financially quite feasible.

## Consumable, spare parts :

1/2

No.	Equipment		No. 1	No. 2	Running Cost / unit	Sub-total Running Cost / unit	No.2 Sub-total Running Cost / unit	Total Running Cost / unit	Total Q'ty
	Q'ty	Q'ty	Q'ty	Q'ty					
1	Bed	Examining Couch	0	10		0	0	0	10
2	Bed	Stretcher	2	3		0	0	0	5
3	Bed	Treatment Table	0	5		0	0	0	5
4	Diagnostic	Electrocardiograph 3 channel	2	1	45,000	90,000	45,000	135,000	3
5	Diagnostic	Electrocardiograph, Portable Type	0	1	65,000	0	65,000	65,000	1
6	Diagnostic	Electroencephalograph	1	0	131,500	131,500	0	131,500	1
7	Diagnostic	Evoked Potential Measuring System	1	0	99,800	99,800	0	99,800	1
8	Diagnostic	Spirometer, Auto	2	0	157,000	314,000	0	314,000	2
9	Endoscope	Endoscope TV System	1	0	18,000	18,000	0	18,000	1
10	Endoscope	Lecturescope	0	1		0	0	0	1
11	Endoscope, Fiber	Fiberscope Cleaning Machine	1	0		0	0	0	1
12	Endoscope, Fiber	Fiberscope, Colono with Light Source	1	0	7,500	7,500	0	7,500	1
13	Endoscope, Fiber	Fiberscope, Gastrointestinal	0	1	7,500	0	7,500	7,500	1
14	Endoscope, Fiber	Fiberscope, Gastrointestinal with Light Source, Treatment Set	1	0	7,500	7,500	0	7,500	1
15	Endoscope, Fiber	Lidged Bronchoscope with Light Source	1	0	7,500	7,500	0	7,500	1
16	Endoscope, General	Endoscope Cabinet	2	1	8,000	16,000	8,000	24,000	3
17	Endoscope, Lidged	Cysto-Urethroscope, Infant	1	0	7,500	7,500	0	7,500	1
18	Endoscope, Lidged	Laparoscope with TV and VTR	1	0	7,500	7,500	0	7,500	1
19	Endoscope, Lidged	Ono Esophageal Speculum for Children	0	1		0	0	0	1
20	Endoscope, Lidged	Ono Jackson Bronchoscope Set	0	1	7,500	0	7,500	7,500	1
21	Endoscope, Lidged	Rectoscope, Rigid Type	1	0		0	0	0	1
22	ENT	Audiometer	1	0		0	0	0	1
23	ENT	Diagnostic Set	0	2		0	0	0	2
24	ENT	Ear Surgical Instrument Set	0	2		0	0	0	2
25	ENT	Hajec Ethmoid Cellulitis Operating Instrument Set	0	2		0	0	0	2
26	ENT	Operating Microscope, Binocular	0	1	35,800	0	35,800	35,800	1
27	ENT	Suction Pressure Pump	0	5		0	0	0	5
28	ENT	Tonsillectomy Set	0	2		0	0	0	2
29	ENT	Tracheotomy Instrument Set	0	2		0	0	0	2
30	General	Dressing Drum Set	0	3		0	0	0	3
31	General	Emergency Cart	1	0		0	0	0	1
32	General	Instrument Cabinet	0	8		0	0	0	8
33	General	Medicine Cabinet	0	8		0	0	0	8
34	General	Pulse Oximeter	15	0		0	0	0	15
35	General	Sphygmomanometer, Electric for Neonate & Pediatric	2	0		0	0	0	2
36	General	Suction Unit	11	5	14,600	160,600	73,000	233,600	16
37	General	Syringe Pump	18	3	76,000	1,368,000	228,000	1,596,000	21
38	General	Ultrasonic Nebulizer	6	0	41,600	249,600	0	249,600	6
39	General	Weighing Scale, Baby	9	0		0	0	0	9
40	General	Weighing Scale, Pediatric	1	0		0	0	0	1
41	General	Wheel Chair	2	0		0	0	0	2
42	Infant	Doppler Fetal Detector	3	0	12,000	36,000	0	36,000	3
43	Infant	Heated Humidifier	2	0		0	0	0	2
44	Infant	Infant Care Unit	5	0	21,000	105,000	0	105,000	5
45	Infant	Infant Incubator	6	0	32,000	192,000	0	192,000	6
46	Infant	Oxygen Tent	0	3		0	0	0	3
47	Instrument	Autopsy Instrument Set	2	0		0	0	0	2
48	Instrument	Biopsy Needle	3	3		0	0	0	6
49	Instrument	Bone Fracture Set	2	0		0	0	0	2
49	Instrument	Bone Marrow Set	3	0		0	0	0	3
50	Instrument	Broening Bronchoscope and Esophagoscopy Forceps	0	1		0	0	0	1
51	Instrument	Lumber Pancreure Instrument Set	3	3		0	0	0	6
52	Instrument	Small Operating Instrument Set	3	0		0	0	0	3
53	Instrument	Surgical Instrument Set for Infant	2	0		0	0	0	2
54	Instrument	Tracheotomy Instrument Set	0	1		0	0	0	1
55	Instrument	Vaginal Speculum, Cusco	20	0		0	0	0	20
56	Instrument, Ope	Nephrectomy Instrument Set	2	0		0	0	0	2
57	Instrument, Ope	Neurosurgery Instrument Set	2	0		0	0	0	2
58	Instrument, Ope	Operating Instrument Set	3	0		0	0	0	3
59	Instrument, Ope	Operating Instrument Set	0	5		0	0	0	5
60	Lab, Biochemistry	Bilirubin Analyzer	2	0	40,000	80,000	0	80,000	2
61	Lab, Biochemistry	Bilirubin Meter, Transcutaneous	1	0		0	0	0	1
62	Lab, Biochemistry	Spectrophotometer, UV-VIS	1	2	37,000	37,000	74,000	111,000	3
63	Lab, Emergency	Blood Gas Analyzer	1	0	830,000	830,000	0	830,000	1
64	Lab, General	Analytical Balance	1	1		0	0	0	2
65	Lab, General	Dispenser, Automatic	0	2	30,000	0	60,000	60,000	2
66	Lab, General	Freezer, -85°C	1	0		0	0	0	1

Consumable, spare parts :

2/2

No.	Equipment	No. 1	No. 2	Running Cost / unit	No.1	No.2	Total Running Cost / unit	Total Q'ty	
		Q'ty	Q'ty		Sub-total Running Cost / unit	Sub-total Running Cost / unit			
67	Lab, General	Incubator	0	4	0	0	0	4	
68	Lab, General	Micropipette Set, Digital	4	7	24,500	98,000	171,500	11	
69	Lab, General	pH Meter	2	1	89,200	178,400	89,200	3	
70	Lab, General	Pipette Washer	2	5	0	0	0	7	
71	Lab, General	Refrigerator	3	0	0	0	0	3	
72	Lab, General	Water Bath	4	2	0	0	0	6	
73	Lab, General	Water Distiller	1	1	0	0	0	2	
74	Lab, General	Centrifuge, Hematocrit	4	1	102,000	408,000	102,000	5	
75	Lab, General	Centrifuge, Table Top	2	4	29,000	58,000	116,000	6	
76	Lab, Genetic	Incubator, CO2	1	0	0	0	0	1	
77	Lab, Hematology	Blood Cell Counter	1	1	2,832,800	2,832,800	2,832,800	2	
78	Lab, Hematology	Blood Diluting Pipette	0	10	0	0	0	10	
79	Lab, Hematology	Differential Leucocyte Counter	0	6	0	0	0	6	
80	Lab, Hematology	Hemoglobinometer	1	1	18,000	18,000	18,000	2	
81	Lab, Hematology	Hemometer	2	1	0	0	0	3	
82	Lab, Microscope	Microscope, Binocular	16	11	10,000	160,000	110,000	27	
83	Lab, Microscope	Microscope, Fluorescence	1	0	53,000	53,000	0	1	
83	Lab, Microscope	Microscope, Inverted	1	0	7,000	7,000	0	1	
84	Lab, Microscope	Microscope, with photo attachment	1	0	13,000	13,000	0	1	
85	Lab, Pathology	Microtome, Freezing	1	0	18,600	18,600	0	1	
86	Monitor	Monitor, Bedside	7	2	102,000	714,000	204,000	9	
87	Monitor	Monitor, Neonatal	4	0	102,000	408,000	0	4	
88	OB	Colposcope	1	0	10,000	10,000	0	1	
89	OB	Delivery Table	3	0	0	0	0	3	
90	OB	Vacuum Extractor	2	0	0	0	0	2	
91	Ope	Electrosurgical Unit	6	3	66,200	397,200	198,600	9	
92	Ope	Operating Light	5	0	12,000	60,000	0	5	
93	Ope	Operating Light with Battery, Stand Type	0	5	6,000	0	30,000	5	
94	Ope	Operating Table	7	5	0	0	0	12	
94	Ope	Operating Table, for Neurosurgery	1	0	0	0	0	1	
95	Ophthalmology	Chart Projector	0	2	15,000	0	30,000	2	
96	Ophthalmology	Hand Mirror	0	9	0	0	0	9	
97	Ophthalmology	Operating Microscope	0	1	35,800	0	35,800	1	
98	Ophthalmology	Ophthalmology Treatment Set	0	2	0	0	0	2	
99	Ophthalmology	Ophthalmoscope	2	2	13,200	26,400	26,400	4	
100	Ophthalmology	Pulse Hand Magnet	0	1	0	0	0	1	
101	Ophthalmology	Skiascopy Rasks	0	2	0	0	0	2	
102	Ophthalmology	Slit Lamp Microscope	0	1	27,700	0	27,700	1	
103	Ophthalmology	Synoptiscope	0	1	2,000	0	2,000	1	
104	Ophthalmology	Trial Lens Set	2	2	0	0	0	4	
105	Respiratory	Anesthesia Apparatus	5	0	50,000	250,000	0	5	
106	Respiratory	Infant Resuscitation Bag	7	0	0	0	0	7	
107	Respiratory	Laryngoscope Set, Miller's (Neonate & Infant)	9	2	5,000	45,000	10,000	11	
108	Respiratory	Ventilator, Adult	2	0	0	0	0	2	
108	Respiratory	Ventilator, Infant	1	1	0	0	0	2	
109	Sterilizer	Autoclave, Vertical	0	3	23,700	0	71,100	3	
110	Sterilizer	High Pressure Steam Sterilization	2	0	151,200	302,400	0	2	
111	Sterilizer	Hot Air Sterilizer	1	18	0	0	0	19	
112	Ultrasound	Ultrasound Scanner	5	0	87,000	435,000	0	5	
113	Ultrasound	Ultrasound Scanner, Multipurpose	1	1	87,000	87,000	87,000	2	
113	X-ray	Cassette and Intensifying Screens, 5 size/set	0	2	0	0	0	2	
114	X-ray	Film Processor, Automatic	1	0	338,000	338,000	0	1	
115	X-ray	Film Processor, Manual	0	1	520,000	0	520,000	1	
116	X-ray	Protective Apron	0	2	0	0	0	2	
117	X-ray	Protector for Sexual Organs for Children	0	4	0	0	0	4	
118	X-ray	X-ray Film Illuminator	0	2	1,250	0	2,500	2	
			Total	273	218	10,682,800	5,288,400	15,971,200	491
						1 Lei=¥16.8	635,881	314,786	950,667



Table 3-2 : Income and Expenses at Clinic No.1 and Clinic No.2

Clinic No.1 (Currency : Moldova, Lei)

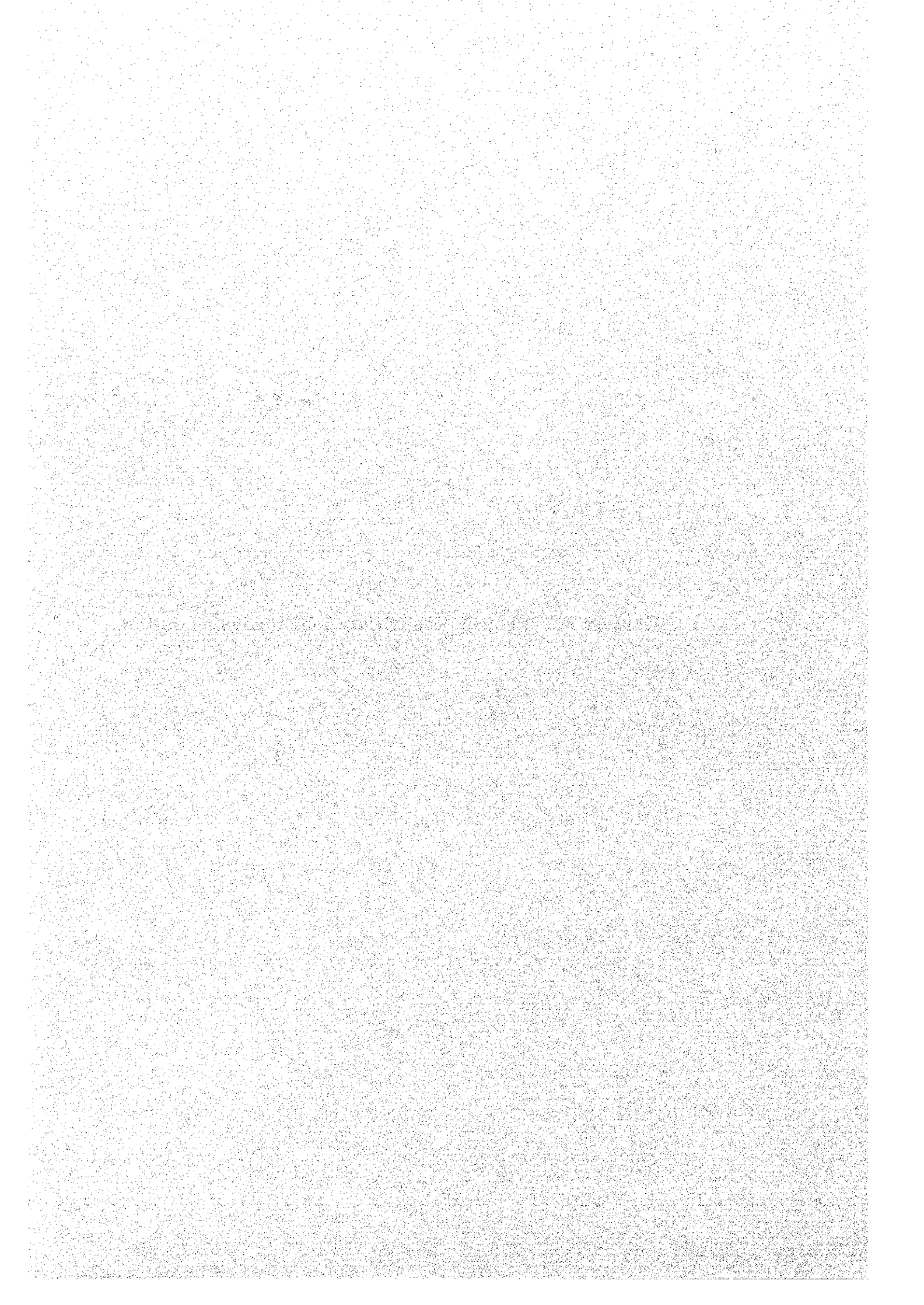
Income	1997 F/Y	1998 F/Y	2000 F/Y (Estimated)
From Ministry of Health	18,066,100	15,717,000	13,673,000
Income from Out-patient			722,000
Income from Inpatient			9,509,000
Rental fee			140,000
Other			-
- Ultrasound			210,500
- ECG, EEG			109,900
- Endoscopy			91,200
- Radiology			181,400
- Laboratory			650,700
Total	18,066,100	15,717,000	25,287,700
Expenses	1997 F/Y	1998 F/Y	2000 F/Y (Estimated)
Salary	5,484,400	5,709,000	5,709,000
Water, electricity, gas	6,390,700	5,239,000	5,431,000
(Increment by required equipment)			(192,000)
Food for patient	1,707,600	1,700,000	1,700,000
Maintenance for facility	464,600	450,000	450,000
Maintenance for medical equipment	100,000	100,000	676,000
(Increment by required equipment)			(576,000)
Purchase of medicine	3,679,600	2,313,000	2,313,000
Purchase of medical equipment	215,000	200,000	200,000
Other	6,200	6,000	6,000
Total	18,066,100	15,717,000	16,485,000
(Increment by required equipment)			(768,000)

Clinic No.2

Income	1997 F/Y	1998 F/Y	2000 F/Y (Estimated)
From Ministry of Health	4,403,241	4,006,000	3,645,000
Income from Inpatient			3,338,000
Other			-
- Ultrasound			105,500
- ECG, EEG			25,300
- Endoscopy			10,200
- Radiology			24,900
- Laboratory			60,400
Total	4,403,241	4,006,000	7,209,300
Expenses	1997 F/Y	1998 F/Y	2000 F/Y (Estimated)
Salary	1,143,000	1,150,000	1,150,000
Water, electricity, gas	1,327,400	1,200,000	1,240,000
(Increment by required equipment)			(40,000)
Food for patient	710,100	700,000	700,000
Maintenance for facility	1,700	1,500	1,500
Maintenance for medical equipment	-	-	375,000
(Increment by required equipment)			(375,000)
Purchase of medicine	1,210,646	944,500	944,500
Other	10,395	10,000	10,000
Total	4,403,241	4,006,000	4,421,000
(Increment by required equipment)			(415,000)

From : Clinic No.1/Clinic No.2

## **Chapter 4 Project Evaluation and Recommendation**



## **Chapter 4 Project Evaluation and Recommendation**

### **4-1 Project Effect**

Ministry of Health in Moldova has formulated a Program for Reform of the Field of Health and Medical Care for 1997-2003 and is carrying forward equipment provision plans with emphasis on PHC and mother and child health.

This project aims at contributing to the Ministry of Health's reform plan through improvement of the functions of the Mother and Child Republican Hospital, which has been assigned the role of the referral hospital for mother and child health.

The Mother and Child Republican Hospital, the facility involved in the project, is the top referral facility and as such the entity that finally receives patients of primary and secondary medical care services. It has a major role to play in strengthening of mother and child health in terms of the medical care and personnel aspects not only as a facility furnishing direct medical care services for coping with perinatal ailments, congenital ailments, etc., which have been on the increase, as a tertiary medical care facility but also as a place for education and training of persons engaged in medical care.

Thus, implementation of provision of equipment to replace the worn out equipment of the facility in question in this project will not only directly benefit mother and child health services but also contribute to improvement of the clinical skills and diagnostic ability of physicians and medical care personnel.

Having studied the expected budget situation of the facility in the coming years on the basis of its past budget figures, we have concluded that it will be possible to secure its budget after implementation of the project since the Ministry of Health is introducing a health insurance system and the hospital, too, is planning to require payment from patients for diagnostic and treatment services.

Those who will directly benefit from implementation of the project are approximately 270,000 persons (in-patients and out-patients) a year in the case of Clinic No. 1 and approximately 21,000 persons (in-patients and emergency patients) a year in the case of Clinic No. 2. Furthermore, since the hospital is a tertiary medical care facility, all of the approximately 2,450,000 persons throughout the country in the categories women in the age group of possible pregnancy and children (up to age 18) will potentially benefit from the project. Since that figure represents 57% of the country's population, it is considered that the project will make a contribution to improvement of

mother and child health in Moldova.

Expected effect by the Project is followings

(1) Refurbishing environment of diagnostic services

Because medical facilities and equipment were not upgraded following the establishment of Moldova as an independent nation, the supplies and materials which are indispensable in order to provide medical services have deteriorated or become obsolete, or are not available in sufficient quantities to cope with patient demands. The objective of the project is to improve basic medical services by supplying items required in hospital wards and delivery rooms, such as weighing scales, laryngoscope sets, infant resuscitation bags, Doppler fetal detectors, stretchers, delivery tables, and other items which are basic materials in the diagnostic and medical care of mothers and children.

(2) Improving tertiary medical care services

At the hospital targeted by this project, which is a top-referral institution with an established and organized referral system, approximately 95% of the patients are either introduced or transported to the hospital from all over the country. In this referral institution, patients are moved through the system, but because many patients cannot be accommodated due to circumstances on the intake side, this project aims to supply the basic medical items and equipment necessary for tertiary medical care, and to contribute to the provision of essential services.

(3) Improving diagnostic services

General examinations are handled by means of manual techniques. In addition, maximum effort is being made to provide health care for as many mothers and children as possible in Moldova under limiting circumstances, through means such as bacteriological testing and genetic diagnostics, but the effectiveness of these measures is hindered by the deterioration of materials and by insufficient materials and supplies. This plan aims to refurbish equipment and supplies, making it possible to provide improved health care processing in a shorter period of time. Moreover, the project aims to contribute to improving the qualitative aspect of diagnostic services, based on precise and accurate test data.

(4) Improving facility administrative abilities

With the introduction of a national health insurance system and a system of remuneration for patient diagnosis and treatment to be implemented as part of a National Health Care

Plan in 1999, changes will be implemented which result in budgets allotted based on the number of patients diagnosed and treated, rather than on the number of beds available. This measure is designed to alleviate incomplete functioning caused by the chronic financial difficulties under which the targeted institutions labor, and will initiate collection of medical care fees on an experimental basis. Because the implementation of this project will lead to refurbishment of materials and supplies, enabling an increase in the numbers and the quality of surgeries, imaging diagnoses, fiberscope diagnoses, and clinical tests, as well as improvements in the monitoring precision of critical-care patients in the Intensive Care Unit, it will contribute to an increase in diagnostic fees.

#### **4-2 Recommendation**

Implementation of the project will be of great significance in that it is the first Japanese grant aid project in Moldova and will contribute to raising the level of mother and child medical care services as called for by the country's health plans. However, accomplishment of the following tasks will be crucial to smooth and effective project operation and attainment of the initial goals of the project since Moldova has introduced a market economy only recently and does not yet have stability in terms of organization and policy:

##### **1) System of Payment by Patients for Diagnosis and Treatment**

It is necessary to raise sufficient funds for the operating and maintenance expenses of the equipment introduced in the project by securing adequate income through efficient operation of this system, which is to be inaugurated in January 1999. Specifically, the following are desirable:

- (1) Working for realization of the system in the project stage
- (2) Formulation of a system for control of collected charges
- (3) Keeping track of the situation regarding income and expenditures on a monthly basis and formulation of fund plans

##### **2) Rationalization of organization**

It is necessary to strengthen facility operating capacity by integrating overlapping functions between Clinic No. 1 and Clinic No. 2 resulting from integration of the two facilities and overlapping functions between different departments of Clinic No. 1, by reducing expenses, by appropriate allocation of personnel and in other ways. Specifically, the following are needed.

- (1) Integration of overlapping administrative departments between the two clinics.

(2) Integration of the physiological test departments organized separately between the in-patient and out-patient division.

### 3) Grooming of Personnel

Although the diagnostic, treatment, patient care and other technical abilities of the personnel engaged in medical care at the Mother and Child Republican Hospital are of a high level since Moldova was a member of the Soviet Union, the sanitary control there is not sufficiently thorough. For the sake of effective use of the equipment provided in the project and raising of the level of diagnostic and treatment capacities it is therefore necessary to thoroughly implement education concerning sanitary control in the ICU and operation rooms.

### 4) Operation and Maintenance

Although the hospital has, in terms of organization, stock, information and other management departments and central management of inventories of consumables, etc. for medical equipment, there is plenty of room for improvement in view of inadequate control of ledgers and slips, insufficient order in storerooms and no adequately developed ordering system. Furthermore, although there are permanently assigned repair technicians and a well-developed maintenance system, for management and repair of consumables and spare parts for the equipment introduced in the project it will also be necessary to make full use of maintenance manuals, operation manuals and circuit diagrams for efficient accomplishment of routine checks and troubleshooting.

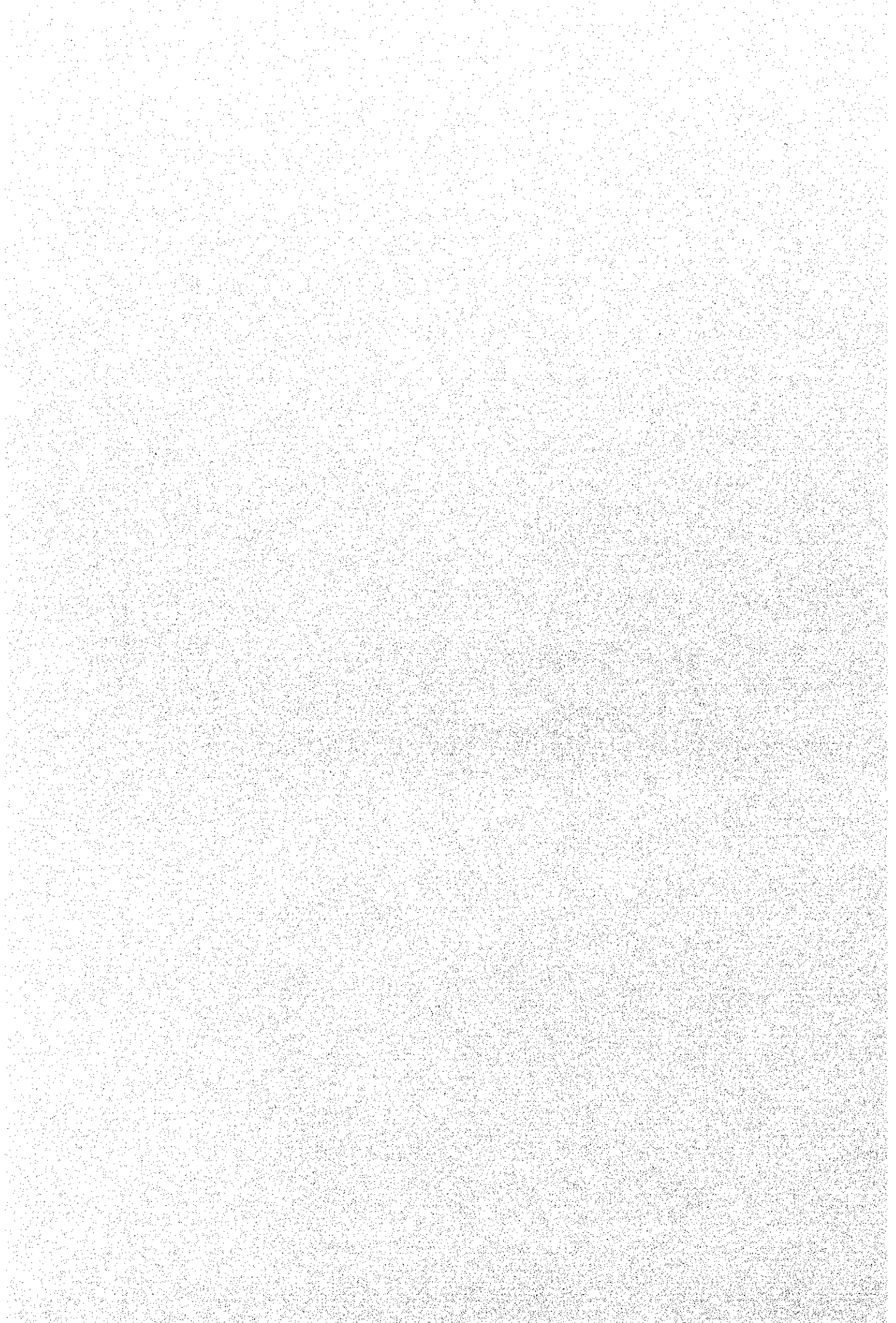
### 5) Monitoring

For the sake of being able to determine the effect of implementation of the project the hospital has agreed to implementation of monitoring surveys for comparison of the situations before (1999) and after (2000 and subsequent years) delivery of the procured equipment as regards medical care activities, number of tests and collection of charges for diagnosis and treatment. (The monitoring indices prepared by the study mission are included in the data section of the report.)

In the present situation Moldova's Ministry of Health is keeping a record of and compiling medical care statistics. At the hospital in question, too, the different departments are keeping such records, but it would seem to be necessary to make standards and criteria clearer and find ways for better statistical treatment of data in that respect.

## **Appendices**





1. Member List of The Survey Term

( 1 ) Basic Design Study (September 6 ~ October 15, 1998)

Mr. Hisashi SAITOH	Team Leader	Grant Aid Division Economic Cooperation Bureau Ministry of Foreign Affairs
Dr. Takako YAMADA	Technical advisor	Bureau of International Cooperation International Medical Center of Japan Ministry of Health and Welfare
Ms. Hiromi SUWA	Project Manager / Operation and Maintenance Planner	International Techno Center Co., Ltd.
Mr. Tamotsu NOZAKI	Equipment Planner 1	International Techno Center Co., Ltd.
Ms. Junko YANO	Equipment Planner 2	International Techno Center Co., Ltd.
Mr. Akio KANEKO	Facility Planner	International Techno Center Co., Ltd.
Mr. Naoki MIMURO	Cost and Procurement	International Techno Center Co., Ltd.
Mr. Yoshio YAMAMOTO	Interpreter	International Techno Center Co., Ltd.

(2) Explanation of Draft Final Report (October 10 ~ November 2, 1998 )

Dr. Takako YAMADA	Team Leader	Bureau of International Cooperation International Medical Center of Japan Ministry of Health and Welfare
Mr. Yodo KAKUZEN	Coordinator	First Project Study Division Grant Aid Project Study Department Japan International Cooperation Agency
Ms. Hiromi SUWA	Project Manager / Operation and Maintenance Planner	International Techno Center Co., Ltd.
Mr. Tamotsu NOZAKI	Equipment Planner 1	International Techno Center Co., Ltd.
Mr. Naoki MIMURO	Cost and Procurement	International Techno Center Co., Ltd.
Mr. Yoshio YAMAMOTO	Interpreter	International Techno Center Co., Ltd.

## 2 Survey Schedule

### 1) Basic Design Study

	Date	Official	Project Manager	Equipment Planner 1	Equipment Planner 2	Facility Planner	Procurement / Cost	Interpreter	
1	9/6	Sun.	Narita 10:05 - Frankfurt 14:55 (LH711)					With Project Manager	
2	9/7	Mon.	Frankfurt 14:20 - Kishinev 17:55 (3R864)						
3	9/8	Tue.	Courtesy call - MOH · MOFA · MOER, Meeting with WHO · UNICIF						
4	9/9	Wed.	AM : Survey at Clinic 1, PM : Survey at Clinic 2						
5	9/10	Thu.	Survey at Clinic 1						
6	9/11	Fri.	Survey at Clinic 2						
7	9/12	Sat.	Survey at Relative institution						
8	9/13	Sun.	Meeting within the team						
9	9/14	Mon.	Discussion about Minutes						
10	9/15	Tue.	Sign of Minutes Courtesy call to MOH			Narita 10:05 - Frankfurt 14:55 (LH711)			
11	9/16	Wed.	Kishinev 06:00 - Kiev 7:20 (3R823), Courtesy call to EOJ Kiev 14:10 - Frankfurt 15:55 (LH1550)	Discussion with Hospital	Frankfurt 14:20 - Kishinev 17:55 (3R864)				
12	9/17	Thu.	Frankfurt 13:55 -	Survey at Clinic 1					
13	9/18	Fri.	Arrive at TKY 7:55 (LH710)						
14	9/19	Sat.		Meeting within the team					
15	9/20	Sun.							
16	9/21	Mon.		Survey at International Organization	Survey at Clinic 1				
17	9/22	Tue.		Discussion with MOH					
18	9/23	Wed.			Survey at Clinic 2		Survey Local agent in Kishinev		
19	9/24	Thu.							
20	9/25	Fri.							
21	9/26	Sat.			Meeting within the team				
22	9/27	Sun.							
23	9/28	Mon.		Survey at International Organization	Survey at Clinic 2		Survey Local agent in Kishinev		
24	9/29	Tue.	Discussion with MOER			Survey Forwarder in Kishinev			
25	9/30	Wed.		Survey at Clinic 1					
26	10/1	Thu.							
27	10/2	Fri.					Kishinev 20:05 - Kiev 21:25 (3R863)		
28	10/3	Sat.		Meeting within the team		Survey Local agent in Kiev			
29	10/4	Sun.							
30	10/5	Mon.		Survey at Clinic 2		Courtesy call to EOJ			
31	10/6	Tue.				Survey Local agent in Kiev			
32	10/7	Wed.	Discussion with Clinic 1	Kishinev 10:50 - Frankfurt 12:45 (3R863)					
33	10/8	Thu.	Discussion with Clinic 2	Leave Frankfurt 13:55					
34	10/9	Fri.	Meeting - MOH · MOFA · MOER	Arrive at Narita 7:55 (LH710)					
35	10/10	Sat.		Meeting within the team					
36	10/11	Sun.							
37	10/12	Mon.	Kishinev 06:00 - Kiev 7:20 (3R823), Courtesy call to EOJ				Kiev 14:10 - Frankfurt 15:55 (LH3261)		
38	10/13	Tue.	Kiev 14:10 - Frankfurt 15:55 (LH3261)				Leave Frankfurt 13:55		
39	10/14	Wed.	Leave Frankfurt 13:55				Arrive at Narita 7:55 (LH710)		
40	10/15	Thu.	Arrive at Narita 7:55 (LH710)						

2) Explanation of Draft Final Report

No.	Date	Official	Project Manager	Equipment Planner 1	Procurement / Cost	Interpreter
1	11/30	Mon.	Narita 10:05 – Frankfurt 14:55 (LH711)			With Project Manager
2	12/1	Tue.	Frankfurt 9:40 – Kiev 13:10 (LH3372) Courtesy call-EOJ			
3	12/2	Wed.	Kiev 8:20 – Kshinev 9:40 (3R824)			
4	12/3	Thu.	Courtesy call -MOH · MOER, Meeting with Institution			
5	12/4	Fri.	Meeting with Institution, Visit Adult Hospital			
6	12/5	Sat.	Meeting within the team			
7	12/6	Sun.				
8	12/7	Mon.	Meeting with Institution			
9	12/8	Tue.	Meeting with Institution			
10	12/9	Wed.	Meeting with Institution			
11	12/10	Thu.	Meeting with Institution			
12	12/11	Fri.	Meeting with Institution	Survey Local agent in Kishinev		
13	12/12	Sat.	Narita 10:05 – Frankfurt 14:55 (LH711)			
14	12/13	Sun.	Frankfurt 13:55 - Kishinev 17:35 (3R864)			
15	12/14	Mon.	Courtesy call -MOH · MOFA · MOER, Meeting with Institution			
16	12/15	Tue.	Meeting with Institution	Survey Local agent in Kishinev		
17	12/16	Wed.	Meeting with Institution			
18	12/17	Thu.	Discussion about Minutes			
19	12/18	Fri.	Sign of Minutes			
20	12/19	Sat.	Meeting within the team			
21	12/20	Sun.				
22	12/21	Mon.	Kishinev 06:00 - Kiev 7:20 (3R823), Courtesy call to EOJ			
23	12/22	Tue.	Kiev 14:10 - Frankfurt 15:55 (LH3261)			
		Wed.	Leave at Frankfurt 17:40 -	Leave at Frankfurt 20:50 -		
24	12/23	Thu.	Arrive at Narita 12:45 (NH210)	Arrive at Narita (JL408)		

### 3. List of Party Concerned in the Recipient Country

#### Clinic No. 1

Prof. Petru Stratulat	Director, Mother and Child Republican Hospital
Prof. Guranda S.	Vice Director of Maternity and Gynecology Dept.
Prof. Covalciuc Grigori	Vice Director of Pediatrics Dept.
Prof. Gitazi Vladimir	Vice Director of Surgery Dept.
Dr. Sofroni Vera G.	Chief of Policlinic for Infant
Dr. Chirilov Valentina	Chief of Pediatrics
Dr. Crivciaschi Larisa	Chief of Newborn ICU
Dr. Esanu Aurica	Chief of Premature No. 1
Dr. Curteanu Elizaveta	Chief of Premature No. 3
Dr. Sirotila Nadejda	Chief of Clinical Diagnostic Laboratory
Dr. Roscin Iurii	Chief of Microbiology
Dr. Mosin Veaceslav	Head of Family Planning and Reproductive Health Dept.
Dr. Belai Olga	Chief of Diagnostic Functional Dept.
Dr. Rascov Valentina	Chief of Endoscopy Dept.
Dr. Scvortsova Ludmila	Chief of Biochemistry

#### Clinic No. 2

Dr. Gheorghe Grosu	Vice Director, Mother and Child Republican Hospital, Director of Clinic No. 2
Dr. Tamara Bas	Chief of Laboratory
Dr. Cugen Talmi	Chief of Diagnosis
Dr. Eudochia Nagdei	Chief of Ophthalmology Dept.
Dr. Victor Maric	Chief of Operation Theater
Dr. Eugen Talmaci	Chief of ENT

#### Ministry of Health

Prof. Eugen Gladun	Minister
Mrs. Motineanu	Deputy Minister
Dr. Vladimir Gasnash	Director of Pharmacy and Medical Technics
Mr. Volovei	Health Care System Reforms Dept.

Ministry of Economy and Reforms

Mr. Dumitru Bragish Vice Minister  
Mr. Veaceslav Scobioala Director of Technical Assistant Coordination Division  
Mrs. Marian Lupu Director of Department of Economic Relations  
Mr. Alexander Osadchey Department of Foreign Economic Relations

Ministry of Foreign Affairs

Mr. Ceslav Ciobanu Vice Minister  
Mr. Yurie Leanca Vice Minister  
Mrs. Dobryanskaya Director of Asia, Africa and Latin America Division  
Mr. Shtefirta Deputy Director of Asia, Africa and Latin America Division

Hincesti Central District Hospital

Dr. Tchurkan George II Director, Hincesti Central District Hospital

International Organization in Moldova

Dr. Andrei Moshneaga Head of WHO Liason Office in Moldova  
Dr. Stefan Carlos Toma Resident Programme Officer, UNICEF

Embassy of Japan in Ukraine

Yuji KUROKAWA Ambassador extraordinary and plenipotentiary  
Kazuya HARADA Second Secretary  
Tomoaki NISHITANI Economic and Financial Attaché

**MINUTES OF DISCUSSIONS**  
**BASIC DESIGN STUDY**  
**ON**  
**THE PROJECT FOR IMPROVEMENT OF MEDICAL EQUIPMENT**  
**FOR MOTHER AND CHILD REPUBLICAN HOSPITAL**  
**IN**  
**THE REPUBLIC OF MOLDOVA**

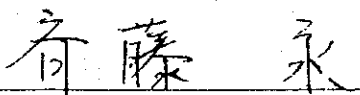
In response to a request from the Government of the Republic of Moldova (hereinafter to as "the Government of Moldova"), the Government of Japan decided to conduct a Basic Design Study on the Project for Improvement of Medical Equipment for Mother and Child Republican Hospital in the Republic of Moldova ( hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to Moldova a study team, which is headed by Mr. Hisashi Saito, Grant Aid Division, Economic Cooperation Bureau, Ministry of Foreign Affairs, and is scheduled to stay in the country from 7 September to 12 October 1998.

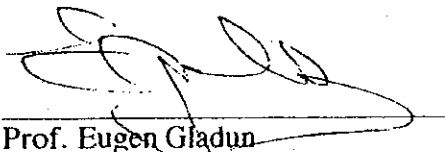
The team held discussions with the officials concerned of the Government of Moldova and conducted a field survey at the study area.

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.

Kishinev, 15 September 1998



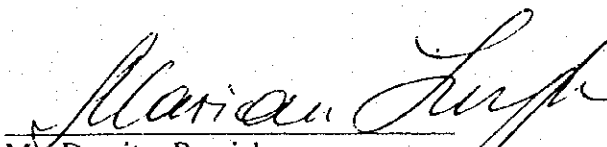
Mr. Hisashi Saito  
Leader,  
Basic Design Study Team  
JICA



Prof. Eugen Gladun  
Minister of Health,  
The Republic of Moldova



Mr. Ceslav Ciobanu  
Vice Minister of Foreign Affairs,  
The Republic of Moldova



Mr. Dumitru Bragish  
Vice Minister of Economy and Reforms,  
The Republic of Moldova



## ATTACHMENT

### 1. Objectives of the Project

The objective of the Project is to improve the medical activities in the project site, using the procured equipment under Japan's Grant Aid.

### 2. Project Sites

Project Site is the hospital below (Shown in Annex I.).

Mother and Child Republican Hospital (Clinic No.1, No.2)

### 3. Responsible Ministry and Executing Agency

Responsible Ministry : Ministry of Health

Executing Agency : Mother and Child Republican Hospital (Clinic No.1, No.2)

### 4. Items requested by the Government

1) After discussions with the Basic Design Study Team, the items described in Annex-II were finally requested by the Government of Moldova for the consideration by the Government of Japan to be provided under the Grant Aid.

2) The Government of Moldova assigned the priority of each item in Annex-II as follows.

A: Equipment which was confirmed its feasibility for the Project by both sides.

B: Equipment which was requested further study to be confirmed its feasibility for the Project.

C: Equipment which was not confirmed its feasibility and agreed deletion from the request by the Government of Moldova.

However, the appropriate quantity of each item will be decided after further study and feasibility analysis in Japan.

3) The Government of Moldova agreed that the study team will analyse all the items based on the criteria referred in Annex III.

### 5. Japan's Grant Aid Programme

(1) The Government of Moldova has understood the system of the Japan's Grant Aid explained by the team. (See Annex-IV)

(2) The Government of Moldova will take necessary measures described in Annex-V for smooth implementation of the Project on condition that the Grant Aid Assistance by the Government of Japan is extended to the Project.

### 6. Schedule of the Study

(1) The study team will proceed further study in Moldova until 12 October 1998.

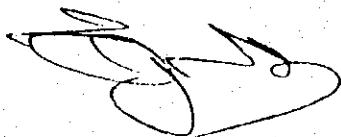
(2) JICA will prepare the draft report in English and dispatch a mission to Moldova in December 1998 in order to explain its contents.

(3) In case that the contents of the above explanation is accepted in principle by the Government of Moldova, JICA will complete the final report in English and send it to the Government of Moldova by the end of April 1999.

**7. Other relevant issues**

The Government of Moldova will take necessary measures for regulation of medical equipment registration regarding registration cost and procedure to smoothly implement the Project.

TWS



Proba

M. V. V. V.

