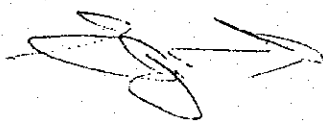


List of Equipment

Annex-1
1/4

Clinic No. 1

Item No.	Name of Equipment	Qty
Delivery Room		
DR 1	Cardio Tocograph	2
DR 2	Infant Care Unit	3
DR 3	Weighing Scale, Baby	3
DR 4	Ultrasound Scanner	1
DR 5	Laryngoscope Set for Infant and Adult	2
DR 6	Infant Resusciation Bag	4
DR 7	Delivery Table	3
DR 8	Vacuum Extractor	2
DR 9	Suction Unit	3
DR 10	Doppler Fetal Detector	2
DR 11	Vaginal Speculum, Cusco	20
DR 12	Wheel Chair	2
DR 13	Emergency Cart	1
Pathological Newborn		
PN 1	Infant Incubator	2
PN 2	Heated Humidifier	2
PN 3	Weighing Scale, Baby	4
PN 4	Laryngoscope Set for Infant	1
PN 5	Infant Resusciation Bag	2
PN 6	Oxygen Monitor	2
PN 7	Syringe Pump	4
PN 8	Monitor, Neonatal	2
PN 9	Ultrasonic Nebulizer	2
PN 10	Ultrasound Scanner, Portable	1
PN 11	Pulse Oximeter	4
Maternal ICU		
MI 1	Ventilator, Adult	1
MI 2	Laryngoscope Set for Adult	1
MI 3	Monitor, Bedside	2
MI 4	Pulse Oximeter	2
Express Laboratory		
EL 1	Centrifuge, Hematocrit	2
EL 2	Blood Gas Analyzer	1
EL 3	Microscope, Binocular	4
EL 4	Hemometer	2
EL 5	Bilirubin Analyzer	2
Maternity Operation Theater		
MO 1	Operating Table	3
MO 2	Suction Unit	3
MO 3	Anesthesia Apparatus	1
MO 4	Electrosurgical Unit	3
MO 5	Stretcher	2
MO 6	Monitor, Bedside	1


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List of Equipment

Annex-1
2/4

Item No.		Name of Equipment	Qty
MO	7	Operating Instrument Set for OB. and GY.	3
MO	8	Small Operating Instrument Set	3
MO	9	Laparoscope with TV and VTR	1
Premature Baby ICU			
PB	1	Infant Incubator	3
PB	2	Infant Care Unit	2
PB	3	Weighing Scale, Baby	2
PB	4	Laryngoscope Set for Infant	1
PB	5	Infant Resuscitation Bag	1
PB	6	Oxygen Monitor	1
PB	7	Monitor, Neonatal	2
PB	8	Ultrasound Scanner, Portable	1
PB	9	Ultrasonic Nebulizer	2
PB	10	Syringe Pump	5
PB	11	Pulse Oximeter	3
PB	12	Sphygmomanometer, Electric for Neonate	2
Pediatric ICU			
PI	1	Laryngoscope Set for Infant and Adult	2
PI	2	Ventilator, Pediatric	1
PI	3	Syringe Pump	5
PI	4	Ultrasonic Nebulizer	2
PI	5	Weighing Scale, Pediatric	1
PI	6	Sphygmomanometer, Electric for Neonate & Pediatric	2
PI	7	Pulse Oximeter	3
Physiological Examination			
PE	1	Spirometer, Auto	1
PE	2	Electrocardiograph 6 channel	1
PE	3	Evoked Potential Measuring System	1
PE	4	Ultrasound Scanner, Multipurpose	1
PE	5	Fiberscope, Gastrointestinal with Light Source for Child	1
PE	6	Fiberscope, Gastrointestinal with Light Source for Adult	1
PE	7	Fiberscope, Colono with Light Source	1
PE	8	Rectoscope with Light Source, Rigid Type	1
PE	9	Bronchoscope with Light Source, Rigid Type	1
PE	10	Endoscope Cabinet	2
PE	11	Fiberscope Cleaning Machine	1
PE	12	Cysto-Urethroscope, Infant	1
PE	13	Endoscope TV System	1
Operation Theater			
OT	1	Operating Table	4
OT	2	Operating Table for Neurosurgery	1
OT	3	Operating Light	5
OT	4	Suction Unit	5
OT	5	Monitor, Bedside	2
OT	6	Anesthesia Apparatus	4

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List of Equipment

Annex-1
3/4

Item No.		Name of Equipment	Qty
OT	7	Surgical Instrument Set for Infant	2
OT	8	Nephrectomy Instrument Set	2
OT	9	Neurosurgery Instrument Set	2
OT	10	Bone Fracture Set	2
OT	11	Cysto-Urethroscope	1
OT	12	Electrosurgical Unit	3
OT	13	Lumber Puncture Instrument Set	3
OT	14	Biopsy Needle	3
Surgical ICU			
SI	1	Monitor, Bedside	2
SI	2	Laryngoscope Set for Infant and Adult	2
SI	3	Ventilator, Infant	1
SI	4	Syringe Pump	4
SI	5	Pulse Oximeter	3
SI	6	Infant Incubator	1
Laboratory			
LA	1	Water Bath	2
LA	2	Hemoglobinmeter	1
LA	3	Blood Cell Counter	1
LA	4	Micropipette Set, Digital	2
LA	5	Centrifuge, Hematocrit	1
LA	6	Microscope, Binocular	7
Biochemistry			
BC	1	Spectrophotometer	1
BC	2	Centrifuge, Table Top	2
BC	3	Centrifuge, Hematocrit	1
BC	4	pH Meter	1
BC	5	Electrolyte Analyzer	1
BC	6	Analytical Balance	1
BC	7	Refrigerator	2
BC	8	Microscope, Binocular	1
BC	9	Water Bath	2
BC	10	Pipette Washer	2
Bacteriology			
BA	1	Refrigerator	1
BA	2	pH Meter	1
BA	3	Hot Air Sterilizer	1
BA	4	Microscope, Fluorescence	1
BA	5	Microscope, Binocular	2
BA	6	Water Distiller	1
Genetic			
GE	1	Incubator, CO2	1
GE	2	Microscope, Inverted	1
GE	3	Microscope with photo attachment	1
GE	4	Freezer, -85°C	1

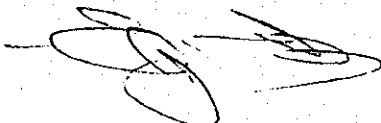
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List of Equipment

Annex-1
4/4

Item No.		Name of Equipment	Qty
GE	5	Micropipette Set, Digital	2
GE	6	Ultrasound Scanner	1
Pathology			
PA	1	Autopsy Instrument Set	2
PA	2	Microtome, Freezing	1
PA	3	Microscope, Binocular	2
Radiology			
RA	1	Film Processor, Automatic	1
Linen Sterilizing Room			
LS	1	High Pressure Steam Sterilizer	2
Policlinic			
PL	1	Electrocardiograph, 6 channel	1
PL	2	Electroencephalograph	1
PL	3	Ultrasound Scanner	1
PL	4	Audiometer	1
PL	5	Spirometer	1
PL	6	Ophthalmoscope	2
PL	7	Trial Lens Set	2
PL	8	Colposcope	1

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List of Equipment

Annex-1
1/2

Clinic No. 2

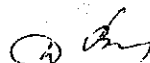
Item No.	Name of Equipment	Qty
Laboratory		
LA 1	Spectrophotometer	2
LA 2	pH Meter	1
LA 3	Centrifuge, Hematocrit	1
LA 4	Centrifuge, Table Top	4
LA 5	Microscope, Binocular	11
LA 6	Incubator	4
LA 7	Autoclave, Vertical	1
LA 8	Water Bath	2
LA 9	Blood Diluting Pipette	10
LA 10	Pipette Washer	5
LA 11	Hemometer	1
LA 12	Hemoglobinmeter	1
LA 13	Differential Leucocyte Counter	6
LA 14	Blood Cell Counter	1
LA 15	Hot Air Sterilizer	5
LA 16	Dispenser, Automatic	2
LA 17	Micropipette Set, Digital	7
LA 18	Water Distiller	1
LA 19	Analytical Balance	1
Functional Diagnostic		
FD 1	Holter ECG Analyzer System	1
FD 2	Electrocardiograph, 6 channel	1
FD 3	Electrocardiograph, Portable Type	1
FD 4	Ultrasound Scanner with Doppler	1
FD 5	Fiberscope, Gastrointestinal with Light Source	1
FD 6	Endoscope Cabinet	1
FD 7	Instrument Cabinet	1
FD 8	Lecturescope	1
ENT		
EN 1	Suction Pressure Pump	5
EN 2	Diagnostic Set	2
EN 3	Ear Surgical Instrument Set	2
EN 4	Tonsillectomy Set	2
EN 5	Tracheotomy Instrument Set	2
EN 6	Esophageal Speculum for Child	1
EN 7	Bronchoscope with Light Source, Rigid Type	1
EN 8	Operating Microscope, Binocular	1
Ophthalmology		
OP 1	Slit Lamp Microscope	1
OP 2	Trial Lens Set	2
OP 3	Hand Mirror	9
OP 4	Skiascopy Rack	2
OP 5	Synoptiscope	1
OP 6	Pulse Hand Magnet	1


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List of Equipment

Item No.		Name of Equipment	Qty
OP	7	Operating Microscope	1
OP	8	Ophthalmology Treatment Set	2
OP	9	Stretcher	1
OP	10	Ophthalmoscope	2
OP	11	Chart Projector	2
Operation Theater			
OT	1	Operating Instrument Set	5
OT	2	Tracheotomy Instrument Set	1
OT	3	Electrosurgical Unit	3
OT	4	Operating Table	5
OT	5	Operating Light with Battery, Stand Type	5
OT	6	Suction Unit	5
OT	7	Autoclave, Vertical	2
OT	8	Stretcher	2
OT	9	Instrument Cabinet	4
OT	10	Laryngoscope Set for Infant and Adult	2
Radiology			
RA	1	Protective Apron	2
RA	2	Protector for Sexual Organs for Child	2
RA	3	Cassette and Intensifying Screens, 5 sizes/set	2
RA	4	Film Processor, Manual	1
RA	5	X-ray Film Illuminator	2
Wards			
WA	1	Treatment Table	5
WA	2	Examining Couch	10
WA	3	Lumber Puncture Instrument Set	3
WA	4	Biopsy Needle	3
WA	5	Instrument Cabinet	3
WA	6	Medicine Cabinet	8
WA	7	Dressing Drum Set	3
WA	8	Syringe Pump	3
WA	9	Ventilator, Infant	1
WA	10	Oxygen Tent	3
WA	11	Hot Air Sterilizer	13

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JAPAN'S GRANT AID PROGRAM

1. Japan's Grant Aid Procedures

(1) The Japan's Grant Aid Program is executed by the following procedures.

Application (Request made by a recipient country)

Study (Preliminary Study / Basic Design Study conducted by JICA)

Appraisal & Approval (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)

Determination of Implementation (Exchange of Notes between the both Governments)

Implementation (Implementation of the Project)

(2) Firstly, an application or a request for a project made by the recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to see whether or not it is suitable for Japan's Grant Aid. If the request is deemed suitable, the Government of Japan entrusts a study on the request to JICA (Japan International Cooperation Agency).

Secondly, JICA conducts the Study (Basic Design Study), using a Japanese consulting firm. If the background and objective of the requested project are not clear, a Preliminary Study is conducted prior to a Basic Design Study.

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


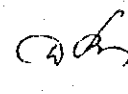

Fourthly, the Project approved by the Cabinet becomes official when pledged by the Exchange of Notes signed by the both Governments.

Finally, for the implementation of the Project, JICA assists the recipient country in preparing contracts and so on.

2. Contents of the Study

(1) Contents of the Study

The purpose of the Study (Preliminary Study/Basic Design Study) conducted on a project requested by JICA is to provide a basic document necessary for appraisal of the project by the Japanese Government. The contents of the

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Study are as follows:

- a) to confirm background, objectives, benefits of the project and also institutional capacity of agencies concerned of the recipient country necessary for project implementation,
- b) to evaluate appropriateness of the Project for the Grant Aid Scheme from a technical, social and economical point of view,
- c) to confirm items agreed on by the both parties concerning a basic concept of the project,
- d) to prepare a basic design of the project,
- e) to estimate cost involved in the project.

Final project components are subject to approval by the Government of Japan and therefore may differ from an original request.

Implementing the project, the Government of Japan requests the recipient country to take necessary measures involved which are itemized on Exchange of Notes.

(2) Selecting (a) Consulting Firm(s)

For smooth implementation of the study, JICA uses (a) consulting firm(s) registered. JICA selects (a) firm(s) through proposals submitted by firms which are interested. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference made by JICA. The consulting firm(s) used for the study is (are) recommended by JICA to a recipient country after Exchange of Notes, in order to maintain technical consistency and also to avoid possible undue delay in implementation caused if a new selection process is repeated.

(3) Status of a Preliminary Study in the Grant Aid Program

A Preliminary Study is conducted during the second step of a project formulation & preparation as mentioned above.

A result of the study will be utilized in Japan to decide if the Project is to be suitable for a Basic Design Study

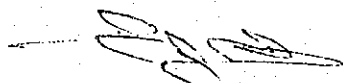
Based on the result of the Basic Design Study, the Government would proceed to the stage of decision making process (appraisal and approval).

It is important to notice that at the stage of Preliminary Study, no commitment is made by the Japanese side concerning the realization of the Project in the scheme of Grant Aid Program.

3. Japan's Grant Aid Scheme

(1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non reimbursable funds needed to procure facilities, equipment and services for economic



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and social development of the country under the following principles in accordance with relevant laws and regulations of Japan. The Grant Aid is not in a form of donation or such.

(2) Exchange of Notes (E/N)

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

(3) "The period of the Grant Aid" means one Japanese fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedure such as Exchange of Notes, concluding a contract with (a) consulting firm(s) and (a) contractor(s) and a final payment to them must be completed.

(4) Under the Grant, in principle, products and services of origins of Japan or the recipient country are to be purchased.

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

However the prime contractors, namely, consulting, contractor and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons.)

(5) Necessity of the "Verification"

The Government of the recipient country or its designated authority will conclude into contracts in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. The "Verification" is deemed necessary to secure accountability to Japanese tax payers.


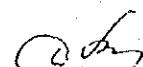
(6) Undertakings required to the Government of the recipient country

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

- a) to secure land necessary for the sites of the project and to clear and level the land prior to commencement of the construction work,
- b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,
- c) to secure buildings prior to the installation work in case the Project is providing equipment,



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- d) to ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,
- e) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,
- f) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) Proper Use

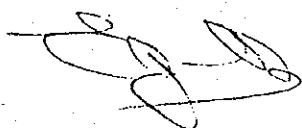
The recipient country is required to maintain and use facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for their operation and maintenance as well as to bear all expenses other than those to be borne by the Grant Aid.

(8) Re-export

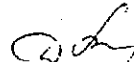
The products purchased under the Grant Aid shall not be re-exported from the recipient country.

(9) Banking Arrangement (B/A)

- a) The Government of the recipient country or its designated authority shall open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by Government of the recipient country or its designated authority under the contracts verified.
- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay issued by the Government of the recipient country or its designated authority.

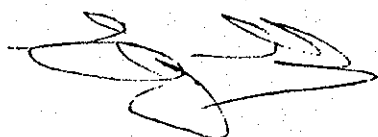


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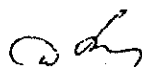


NECESSARY MEASURES TO BE TAKEN
BY THE GOVERNMENT OF MOLDOVA

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



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5. モニタリング指標

Project of Mother and Child Republican Hospital supported by JICA

1. Overall goal of the Project

Medical care services for mother and child in Moldova is improved.

2. Project purpose

The function of the Hospital is strengthened.

3. Outputs

1) The basic medical care for mother and child in the Hospital is improved.

2) The activities in the Hospital as a tertiary center for perinatal and pediatric care is strengthened.

3) The financial situation of the Hospital is improved by introduction of the user fee system followed by improving the quality of diagnosis and treatment services for patients.

4. Activities

1)	
2)	
3)	

5. Inputs

1) Japan : Medical equipment

2) Moldova: Human resources, Drug and consumables, Running cost

6. Indicators

1. Overall goal	MMR, IMR, NMR and PMR in Moldova Number of the pregnant women with complications	Statistics of MOH
2. Project purpose	Number of the patients in the Hospital Number of the referral cases to the Hospital Death rate of the patients in the Hospital Days of the equipment which is not functioning	Statistics of the Hospital
3. Outputs	1) Waiting time of the patients for laboratory examination in polylinic Number of the asphyxia newborn Time saving of laboratory staff 2) Number of severe cases 3) Income from user fee	Interview to the patients Statistics of ICU Statistics of the accountant

Indicators to measure the improvement of the quality of services of the Hospital

A. Clinic No.1

1. Obstetric department

Delivery room, Pathological newborn, Maternal ICU, Maternal express laboratory, Maternal OT

- 1) Number of the referral cases of pregnant women
- 2) Number of the patients who come directly to the Hospital
- 3) Number of the deliveries
- 4) Number of the pregnant women with complications such as toxemia, hemorrhage etc.
- 5) Number of maternal death
- 6) Number of the Cesarean section
- 7) Incidence of the complications of post-operation
- 8) Number of diagnosis such as placenta previa detected by ultrasound
- 9) Number of the vacuum deliveries
- 10) Number of the neonatal asphyxia cases
- 11) Number of the neonatal death
- 12) Number of the bilirubin measurement of newborn babies

2. Pediatrics

Premature baby ICU, Pediatric ICU

- 1) Number of the referral cases of premature babies
- 2) Survival rate of premature babies depending on the birth weight
- 3) Incidence of the retinopathy of prematurity
- 4) Number of the Pediatric ICU patients
- 5) Death rate of ICU patients
- 6) Number of the cases indicated mechanical ventilation
- 7) Survival rate of the patients treated by mechanical ventilation

3. Pediatric surgery

OT, Surgical ICU

- 1) Number of the surgical ICU patients
- 2) Death rate of ICU patients
- 3) Number of the cases indicated mechanical ventilation
- 4) Survival rate of the patients treated by mechanical ventilation
- 5) Number of the operation cases
 - a. general surgery
 - b. urology
 - c. trauma/orthopedics
 - d. neurosurgery
 - e. newborn surgery
- 6) Incidence of the complications of post-operation

4. Physiological examination

- 1) Number of each examination
 - a. spirometer
 - b. ECG
 - c. Evoked potential measurement
- 2) Diagnosis of the patients detected by ultrasound
 - a. cardiac diseases
 - b. abdominal diseases
 - c. kidney diseases
 - d. others
- 3) Diagnosis of the patients detected by endoscopy
 - a. gastrointestinal diseases
 - b. broncho-pulmonary diseases
 - c. cysto-urethra diseases
- 4) Waiting time of the patients for endoscopy

5. Laboratory examination

Laboratory, Express laboratory, Biochemistry, Bacteriology

- 1) Number of each examination
 - a. hematology
 - b. electrolyte
 - c. biochemistry
- 2) Average time of hematology measurement
- 3) Waiting time of the polyclinic patients for the laboratory examination

6. Genetic

- 1) Number of the genetic cases and diagnosis
- 2) Number of the counseling cases for genetic patients
- 3) Prognosis of genetic cases

7. Pathology

- 1) Number of autopsy cases
- 2) Number of the pathology cases and diagnosis

8. Polyclinic

- 1) Number of the patients
- 2) Number of the cases and diagnosis
 - a. ECG
 - b. Ultrasound
 - c. EEG
 - d. Audiometer
 - e. Spirometer
 - f. Ophthaomoscope
 - g. Colposcope
- 3) Waiting time of the patients for each examination

B. Clinic No.2

1. Laboratory

- 1) Number of each examination
- 2) Time of hamatology measurement

2. Functional diagnosis

- 1) Number of each examination and diagnosis
 - a. Holter ECG
 - b. Ultrasound
 - c. Gastrointesinal endoscopy

3. ENT

- 1) Number of the patients and diagnosis
- 2) Number of the operation cases

4. Ophthalmology

- 1) Number of the patients and diagnosis
- 2) Number of the operation cases

5. OT

- 1) Number of the operation cases
- 2) Incidence of the complications of post-operation

6. Wards

- 1) Number of ICU patients
- 2) Number of the patients indicated of mechanical ventilation
- 3) Death rate of the patinets

C. Financial situation of the Hospital

- 1) Total income from the user fee
 - a. Income of each department
 - b. Income of laboratory examination
 - c. Income of physiological examination
- 2) Percent of the patients without payment
 - a. less than 1 year
 - b. delivery with complication
 - c. handicap people
 - d. poor people
- 3) Payment for the reagent of laboratory equipment from user fee
- 4) Payment for the maintenance of medical equipment
- 5) Payment of the incentive for staff

6. 参考資料リスト

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3. Ocrotirea Sanatatii in Moldova 1997 (Health Protection in Moldova 1997)	Ministerul Sanatatii (Ministry of Health)	1998
4. Mission Report of Strengthening of Perinatal Health Care	Ministry of Health and UNICEF	1998
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7. Human Development Report 1997 貧困と人間開発	UNDP	1997
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JICA