

Japan's Grant Aid Scheme

1. Grant Aid Procedures

1) Japan's Grant Aid Program is executed through the following procedures.

| | |
|---------------------------------|--|
| Application | (Request made by a recipient country) |
| Study | (Basic Design Study conducted by JICA) |
| Appraisal & Approval | (Appraisal by the Government of Japan and Approval by Cabinet) |
| Determination of Implementation | (The Notes exchanged between the Governments of Japan and the recipient country) |

2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

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, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

2. Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study (hereafter referred to as "the Study"), conducted by JICA on a requested project (hereafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Study are as follows:

- Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- Preparation of a basic design of the Project
- Estimation of the costs of the Project

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid Project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations in the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For the smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA selects (a) firms(s) based on proposals submitted by interested firms. The firm(s) selected carry (ies) out the Basic Design Study and write(s) a report, based upon terms of reference set by JICA. The consulting firm(s) used for the Study which is (are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency.

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 the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under the principals in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

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

3) "The period of the Grant Aid" means the one fiscal year in which the Cabinet approves the Project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed. However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

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

However the prime contractors, namely, consulting contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

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

6) Undertakings required of the Government of recipient country

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

- a) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- b) To provide facilities of the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- c) To secure buildings prior to the procurement in case the installation of the equipment.
- 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 the facilities constructed and the equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for operation and maintenance of them as well as to bear all the expenses other than those covered 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 Arrangements (B/A)

- a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a 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 the Government of the recipient country or its designated authority under the Verified Contracts.
- 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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Major Undertakings to be taken by Each Government

| NO | Items | To be covered by Grant Aid | To be covered by Recipient side |
|----|--|----------------------------|---------------------------------|
| | To bear the following commissions to a bank of Japan for the banking services based upon the B/A | | |
| 1 | 1) Advising commission of A/P | | ● |
| | 2) Payment commission | | ● |
| | To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country | | |
| 2 | 1) Marine(Air) transportation of the products from Japan to the recipient country | ● | |
| | 2) Tax exemption and custom clearance of the products at the port of disembarkation | | ● |
| | 3) Internal transportation from the port of disembarkation to the project site | (●) | (●) |
| 3 | To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work | | ● |
| 4 | To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract | | ● |
| 5 | To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid | | ● |
| 6 | To bear all the expenses, other than those to be borne by the Grant Aid, necessary for the transportation and installation of the equipment | | ● |

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Qty Requested | Priority by Kazakhstan Side |
|----------|------|----|---|---------------|-----------------------------|
| Hospital | Dept | No | | | |
| 2 | X | 1 | Computer Tomography Unit | 1 | A |
| 2 | X | 2 | NMR Tomograph with minimum 1.0 Tesla Magnetic Capacity with Synchronise | 1 | A/B |
| 2 | X | 3 | X-ray Stationary Unit with 2 X-ray Tubes with Digital Processing & Telemetry for X-ray Scopy and X-ray Graphy | 1 | A |
| 2 | X | 4 | X-ray Mobile Unit for X-ray examination at patient wards, operation rooms | 3 | A |
| 2 | X | 5 | Automatic Film Processor | 2 | A |
| 2 | X | | X-ray Film Illuminator (420 x 540 x 95) | 2 | A |
| 2 | X | 6 | X-ray Film Illuminator (1140 x 540 x 95) | 2 | |
| 2 | X | | X-ray Film Illuminator (2210 x 1362 x 450. Mobile) | 1 | |
| 2 | X | 7 | Protective Apron | 10 | A |
| 2 | X | 8 | X-ray Cassette Loading Desk | 1 | B |
| 2 | X | 9 | Box for X-ray Film Storage | 1 | B |
| 2 | X | 10 | Ultrasound Stationary Unit with Probe Set : Convex, Linear, Sector and Special Probes with Color Doppler Unit | 1 | A |
| 2 | X | 11 | Portable Ultrasound Unit, Linear and Convex Probe | 1 | A |
| 2 | X | 12 | General X-ray Unit | 1 | A/B |
| 2 | ICU | 1 | Ventilator for Infant (new-born) and Child | 2 | A |
| 2 | ICU | 2 | Ventilator for Children and Adult | 3 | A |
| 2 | ICU | 3 | Ultrasonic Nebulator w/mask and tubes | 6 | A |
| 2 | ICU | 4 | Bedside Monitor (Breathing, Temperature, Pulse, ECG, O2 Row etc) | 12 | A |
| 2 | ICU | 5 | Infant Incubator | 3 | A |
| 2 | ICU | 6 | Plazmapheresis Unit for 1 patient w/centrifuge and timer (Platelet, WBC, TPE) | 1 | A |
| 2 | ICU | 7 | Functional Reanimation (Hi-Lo Gatch High Grade) Bed | 10 | A |
| 2 | ICU | 8 | Defibrillator with Cart | 2 | A |
| 2 | ICU | 9 | Infusion Pump | 12 | A |
| 2 | ICU | 10 | Oxygen Supply Unit w/mask & monitor | 5 | A |
| 2 | ICU | 11 | Electronic Balance for New-born 0-10kg | 1 | A |
| 2 | ICU | 12 | Electronic Balance for Adult (0-60kg) | 3 | A |
| 2 | ICU | 13 | Blood Pressure Tonometer (Electronic Type) Pediatric | 10 | A |
| 2 | ICU | 14 | Laryngoscope Set for Children and Adult | 15 | A |
| 2 | ICU | 15 | Blood Haemosorbition Unit (Red Blood Cell) | 1 | B |
| 2 | ICU | 16 | UV Extracorporeal Blood Disinfection | 1 | B |
| 2 | ICU | 17 | Electric Suction Unit | 10 | A |
| 2 | ICU | 18 | Clavicular Puncture Disposable Set | 500 | C |
| 2 | ICU | 19 | Peridural Puncture Disposable Set | 200 | B |
| 2 | ICU | 20 | Spinal Puncture Disposable Set | 200 | B/C |
| 2 | ICU | 21 | Blood Refrigerator, Big Capacity | 2 | A |
| 2 | EY | 1 | Ophthalmoscope Handy Unit (Electric) | 4 | A |
| 2 | EY | 2 | Slit Lamp | 2 | A |
| 2 | EY | 3 | Slit Lamp for new-born and children 2-3 years ages | 1 | A |
| 2 | EY | 4 | Autorefractokeratometer | 1 | A |
| 2 | EY | 5 | Pachymeter w/ Printer for Eye Ultrasound Examination | 1 | A |
| 2 | EY | 6 | Test Lenses Major Diagnostic Set with Refraction Spectacles | 2 | A |
| 2 | EY | 7 | Fundus Camera for Stereoscov Eye Examination | 1 | A |
| 2 | EY | 8 | Ophthalmic Laser Therapy Unit | 1 | A |
| 2 | EY | 9 | Ophthalmic-chromoscope with Fiber Optic Light | 2 | A |
| 2 | EY | 10 | Ultrasound Apparatus for Ophthalmology (w/pen type probe) | 1 | B |
| 2 | EY | 11 | Ophthalmology Chair Mounted unit | 1 | A |

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Q'ty Requested | Priority by Kazakhstan Side |
|----------|-------|----|---|----------------|-----------------------------|
| Hospital | Dept. | No | | | |
| 2 | EY | 12 | Field Analyzer w/40 MB HD, Stramer Tape Back-up, Video Eye Monitor, Statpac 2, Kidetic & Patient View | 1 | A |
| 2 | EX | 1 | Echoencephalography Unit 1 stationary + 1 portable (for exam at words) | 2 | A |
| 2 | EX | 2 | Electromyograph | 1 | B |
| 2 | EX | 3 | Electronic Balance for Adults | 10 | A |
| 2 | EX | 4 | Multichannel Cardioanalyzer (12 channels) | 1 | A |
| 2 | EX | 5 | Computer System for External Respiration (Spiroanalyzer) | 1 | A |
| 2 | EX | 6 | EEG (Electroencephalograph), 18 channels | 1 | A |
| 2 | EX | 7 | 6-channel Electrocardiograph | 1 | A |
| 2 | EX | 8 | 1-channel Electrocardiograph | 1 | A |
| 2 | EX | 9 | Mingograph (ECG plus phonocardiography etc) Unit | 1 | A |
| 2 | ES | 1 | Fibergastroscope Pediatric set | 2 | A |
| 2 | ES | 2 | Fibercolonoscope Pediatric set | 1 | A |
| 2 | ES | 3 | Fiberbronchoscope Pediatric set | 1 | A |
| 2 | ES | 4 | Diagnostic Laparoscope w/monitor | 1 | A |
| 2 | ES | 5 | Duodenofiberscope | 1 | A |
| 2 | ES | 6 | Thoracoscope Pediatric Set | 1 | A |
| 2 | ES | 7 | Universal Light Source | 5 | A |
| 2 | ES | 8 | Endoscopic Suction Pump | 5 | A |
| 2 | ES | 9 | Electrosurgical Unit for Endoscopic Treatment, Coagulation etc. | 3 | A |
| 2 | ES | 10 | Endoscope Cleaning Unit (Cabinet) | 5 | A |
| 2 | ES | 11 | Ultrasonic Washing Unit for Endoscopic Tools | 2 | A |
| 2 | ES | 12 | Anaesthesia Apparatus with Ventilator for Child and Adult | 1 | A |
| 2 | SG | 1 | Surgery Suction Unit Portable | 8 | A |
| 2 | SG | 2 | Shadowless Operation Lamp Mobile Small | 5 | A |
| 2 | SG | 3 | Cystourethrofiberscope Diagnostic Set, Pediatric w/ Light Source | 2 | A |
| 2 | SG | 4 | Urodynamic Monitor | 1 | A |
| 2 | SG | 5 | Trolley for Patients Transportation | 10 | A |
| 2 | SG | 6 | Coagulator | 2 | A |
| 2 | SG | 7 | Ultrasonic Nebulizer w/mask and tubes | 1 | A |
| 2 | SG | 8 | Infant Incubator | 2 | A |
| 2 | SG | 9 | Ozone Chamber | 2 | A |
| 2 | SG | 10 | Anaesthesia Apparatus with Ventilator for Child and Adult | 1 | A |
| 2 | SG | 11 | Ultrasonic Surgical Suction Unit | 5 | A |
| 2 | SG | 12 | Drain System for Abdominal Cavity Disposable | 200 | B/C |
| 2 | SG | 13 | Thoracic Drain System Disposable | 50 | B/C |
| 2 | SG | 14 | Kosirsky Bone Puncture Needle | 10 | A |
| 2 | SG | 15 | Osseous-Marrow Drain Tube | 100 | B/C |
| 2 | SG | 16 | Intestines Intubation-Drain Tube | 40 | B/C |
| 2 | SG | 17 | Oesophagus Bougie Set | 2 | A |
| 2 | SG | 18 | Universal Operation Table | 1 | A |
| 2 | OR | 1 | Arthroscope Set with Instruments for 1-14 ages | 1 | A |
| 2 | OR | 2 | Functional Traumatology Bed | 10 | A |
| 2 | OR | 3 | Wheel Chair | 10 | A |
| 2 | OR | 4 | Binocular Loupe Glass | 2 | C |
| 2 | OR | 5 | Traumatology Rod Apparatus for 1-14 ages (for complicated bone fracture) | 3 | A |
| 2 | OR | 6 | Metal Work Tool Set | 2 | A |
| 2 | OR | 7 | Spinal Cord Traction Staple Set | 10 | A |

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|----------|------|----|--|----------------|-----------------------------|
| Hospital | Dept | No | | | |
| 2 | OR | 8 | Bone Electric Drilling unit | 2 | A |
| 2 | OR | 9 | Ultrasonic Nebulator w/mask and tubes | 1 | A |
| 2 | OR | 10 | Anaesthesia Apparatus with Ventilator for Child and Adult O2/N2O etc | 1 | A |
| 2 | OR | 11 | Infant Incubator | 2 | A |
| 2 | OR | 12 | Operation Table for Traumatology/Orthopaedy | 1 | A |
| 2 | OR | 13 | Laser Therapy Unit with different wave length | 1 | A |
| 2 | OP | 1 | Anaesthesia Apparatus with Ventilator for Child and Adult O2/N2O etc | 5 | A |
| 2 | OP | 2 | Operation Table Universal | 4 | A |
| 2 | OP | 3 | Electric Motor Operation Table for Orthopaedy | 1 | A |
| 2 | OP | 4 | Electric Scalpel | 3 | A |
| 2 | OP | 5 | Solid State Bipolar Coagulator | 3 | A |
| 2 | OP | 6 | Operational Laparoscope with Monitor/Endoscopy Video System | 1 | A |
| 2 | OP | 7 | Operation X-ray Mobile Unit | 1 | A |
| 2 | OP | 8 | Operational Microscope Binocular w/ Coaxial Light Source for Ophthalmology | 2 | A |
| 2 | OP | 9 | Ophthalmic Surgery and Microsurgery Instrument Set | 2 | A |
| 2 | OP | 10 | Operation Suture Materials for Eye Microsurgery (monofiber, lavsan etc) | 1 | A |
| 2 | OP | 11 | Coagulator for Eye Operation | 1 | A |
| 2 | OP | 12 | Eye Operation Scissors | 20 | A |
| 2 | OP | 13 | Surgery Electric Suction Unit | 5 | A |
| 2 | OP | 14 | Operating Light Portable Shadowless with Battery | 5 | A |
| 2 | OP | 15 | Operating Ceiling Lights | 2 | A |
| 2 | OP | 16 | Surgery Instrument Major Set | 2 | A |
| 2 | OP | 17 | Surgery Pediatric Instrument Set | 2 | A |
| 2 | OP | 18 | Surgery Instrument Set for New-born | 2 | A |
| 2 | OP | 19 | Hot Air Autoclave | 6 | A |
| 2 | OP | 20 | Urology Instrument Set | 2 | A |
| 2 | OP | 21 | Operational Cystourethroscope Set | 1 | A |
| 2 | OP | 22 | Microsurgery Instrument Set | 1 | A |
| 2 | OP | 23 | Equipment and Instruments for Cryosurgery (deep freeze surgery) | 1 | A |
| 2 | OP | 24 | Electrosurgery High Frequency Unit | 5 | A |
| 2 | OP | 25 | Suture Material (caetgut, nylon etc) | 1 | B |
| 2 | OP | 26 | Universal Suturing Apparatus with Clip Set | 1 | A |
| 2 | OP | 27 | Mosquito Hemostatic Forceps. | 200 | A |
| 2 | OP | 28 | Kocher Hemostatic Forceps | 200 | A |
| 2 | OP | 29 | Pean Hemostatic Forceps | 200 | A |
| 2 | OP | 30 | Kelly Hemostatic Forceps | 200 | A |
| 2 | OP | 31 | Needle Holder | 100 | A |
| 2 | OP | 32 | Suture Needle | 1000 | A |
| 2 | OP | 33 | Suture Scissors Straight | 100 | A |
| 2 | OP | 34 | Suture Scissors Curved | 100 | A |
| 2 | OP | 35 | Operating Knife Handle | 20 | A |
| 2 | OP | 36 | Operating knife Blade Disposable | 1000 | A |
| 2 | OP | 37 | Operating Scalpel | 100 | A |
| 2 | OP | 38 | Standard Operating Scissors | 100 | A |
| 2 | OP | 39 | Scissors for Angiooperations | 20 | A |
| 2 | OP | 40 | Surgical Tweezers 140mm | 100 | A |
| 2 | OP | 41 | Anatomy Tweezers | 100 | A |
| 2 | OP | 42 | Traumatology (Orthopaedic) Instrument Set | 1 | A |

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Q'ty Requested | Priority by Kazakhstan Side |
|----------|------|-----|--|----------------|-----------------------------|
| Hospital | Dept | No. | | | |
| 2 | OP | 43 | Traumatology (Orthopaedic) Instrument Set for Child | 2 | A |
| 2 | OP | 44 | Operational Microscope for Neurosurgery Operations | 1 | A |
| 2 | OP | 45 | Instrument Set for Operations on Spinal Cord (Trauma and Scoliosvs) | 1 | A |
| 2 | OP | 46 | Neurosurgery Instrument Set | 1 | A |
| 2 | OP | 47 | Binocular Loupe Glasss w/Fiber Optic | 1 | A |
| 2 | OP | 48 | Instrument Set for Hip-pelvis Operation of children with inborn dislocations | 1 | A |
| 2 | OP | 49 | Operational Surgery Laser Unit | 1 | C |
| 2 | OP | 50 | Table for Instruments (large) | 5 | A |
| 2 | OP | 51 | Bone Drilling, Cutting and Treatment Unit | 2 | A |
| 2 | OP | 52 | Instrument Set for Operation on Tendons | 1 | A |
| 2 | OP | 53 | Ultrasonic Suction Unit for Brain Operation | 1 | A |
| 2 | OP | 54 | Brain Drain System Disposable | 100 | A |
| 2 | OP | 55 | Spinal Cord Distractor Harrington Type for Scoliosys Operations | 100 | A |
| 2 | OP | 56 | Hip-pelvis Inborn Dislocations Fixator 5 different sizes | 50 | A |
| 2 | OP | 57 | Spinal Cord Traction Frame | 10 | A |
| 2 | OP | 58 | Metal Work Tool Set | 2 | A |
| 2 | OP | 59 | Cancellous Bone Screw Set | 2 | A |
| 2 | OP | 60 | Bone Fracture Fixing Plates for Children of Young Ages | 50 | A |
| 2 | OP | 61 | Intramedullar Bone Screw | 100 | A |
| 2 | OP | 62 | Bone Rod for Fracture Apparatus, different dia. 3mm-6mm | 100 | A |
| 2 | OP | 63 | Langenbeck Bone Holding Forceps | 10 | A |
| 2 | OP | 64 | Farabeuf-Lambotte Bone Holding Forceps | 10 | A |
| 2 | OP | 65 | Liston Bone Cutting Forceps | 25 | A |
| 2 | OP | 66 | Rongeur Forceps | 10 | A |
| 2 | OP | 67 | Gonzett Goniometer | 5 | A |
| 2 | OP | 68 | UV Hand Washing Apparatus | 3 | A |
| 2 | OP | 69 | UV Disinfection Lamp, Mobile | 2 | A |
| 2 | OP | 70 | X-ray Film Illuminator | 2 | A |
| 2 | OP | 71 | Bix Holder | 10 | A |
| 2 | OP | 72 | Dermatom | 2 | A |
| 2 | CH | 1 | Sternal Puncture Set for Infants Autoclavable | 3 | A |
| 2 | CH | 2 | Sternal Puncture Set for Children of Senior Age | 3 | A |
| 2 | CH | 3 | Electronic Balance for Newborn | 1 | A |
| 2 | CH | 4 | Electronic Balance for Adult | 2 | A |
| 2 | CH | 5 | Phonendoscope for Children | 3 | A |
| 2 | CH | 6 | Electronic Tonometer | 3 | A |
| 2 | CH | 7 | Urinal Catheter (male, female) | 400 | A |
| 2 | CH | 8 | Infant Incubator | 1 | B |
| 2 | CH | 9 | Functional Bed | 10 | A |
| 2 | CH | 10 | Aggregometer (Trombocyte etc Analyzer) | 1 | A |
| 2 | ENT | 1 | ENT Instrument Set | 3 | A |
| 2 | ENT | 2 | Diagnostic Audiometer for Children | 1 | A |
| 2 | ENT | 3 | ENT High Frequency Electrosurgical Unit | 1 | A |
| 2 | ENT | 4 | Microsurgery Instrument Set for Larynx Operation | 2 | A |
| 2 | ENT | 5 | Fiberlaryngoscope Set | 1 | A |
| 2 | ENT | 6 | Sinusoscope | 1 | A |
| 2 | ENT | 7 | ENT Suction Unit | 3 | A |
| 2 | ENT | 8 | ENT Criosurgery Unit | 1 | A |
| 2 | ENT | 9 | ENT Laser Surgery Unit | 1 | A |
| 2 | ENT | 10 | ENT Operational Microscope | 1 | A |

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Qty Requested | Priority by Kazakhstan Side |
|----------|------|-----|---|---------------|-----------------------------|
| Hospital | Dept | No. | | | |
| 2 | ENT | 11 | Operational Laryngoscope Ceiling Set Kleinwasser | 1 | A |
| 2 | ENT | 12 | Universal Operation Table | 1 | A |
| 2 | ENT | 13 | Anaesthesia Apparatus with Ventilator for child and adults O2/N2O etc | 1 | A |
| 2 | ENT | 14 | Ultrasonic Inhaler Izomed type | 1 | A |
| 2 | ENT | 15 | Desk Top Autoclave | 1 | A |
| 2 | ENT | 16 | Air-Conditioner, Window Type | 2 | A |
| 2 | OD | 1 | Dental Unit with Chair and Air-compressor | 1 | A |
| 2 | OD | 2 | Set of Treatment Equipment for Dentist Diamond Type | 1 | A |
| 2 | OD | 3 | Tooth Filling Preparation Kit & Dental Material | 1 | A |
| 2 | OD | 4 | Electric Oven | 1 | C |
| 2 | OD | 5 | Laboratory Lathe | 1 | C |
| 2 | OD | 6 | Dental Autoclave Desk Top | 1 | A |
| 2 | RH | 1 | Ultrahigh Frequency Current Treatment Apparatus (27MHz/11.05m etc) | 4 | A |
| 2 | RH | 2 | Diadinamical Curernt Treatment Apparatus 200Hz | 2 | A |
| 2 | RH | 3 | Electric Analgesy and THENS Therapy Unit | 2 | A |
| 2 | RH | 4 | Artificial Electric Sleep Apparatus (Low Frequency Impulse Current 3-120 impulse/sec 100mA) | 2 | A |
| 2 | RH | 5 | Ultratone Frequency Treatment Apparatus (22KHz/4-5KV/up to 10Wt) | 2 | B |
| 2 | RH | 6 | Ultrahigh Frequency Electromagnetic Treatment (460MHz-65cm wave/2375MHz-12cm wave) | 3 | A |
| 2 | RH | 7 | Low Frequency Alternating Magnetic Therapy Unit | 2 | A |
| 2 | RH | 8 | UV Treatment Unit (Nasal, Pharynx, Wounds and Body) | 2 | A |
| 2 | RH | 9 | Ultrasound Wave Therapy Treatment Unit | 2 | A |
| 2 | RH | 10 | Ultrasound Inhaler Izomed Type | 5 | A |
| 2 | RH | 11 | Electric Massage Treatment Unit | 5 | A |
| 2 | RH | 12 | Laser Therapy Unit w/Different Wave Length | 1 | A |
| 2 | RH | 13 | Ortho Trac, Portable | 3 | A |
| 2 | RH | 14 | Hydro Bubbler Bath | 1 | A |
| 2 | RH | 15 | Ankle amd Leg Exercisizer | 1 | A |
| 2 | RH | 16 | Lower Limb Extension | 1 | A |
| 2 | RH | 17 | Rowing Imitator | 1 | A |
| 2 | RH | 18 | Exercise Stairs | 1 | A |
| 2 | RH | 19 | Perceptial Motor Training Set | 1 | A |
| 2 | RH | 20 | Curb and Mill | 1 | A |
| 2 | RH | 21 | Rotary Shoulder & Elbow Apparatus (Pronatio and Supinnatio) | 1 | A |
| 2 | RH | 22 | Shoulder Wheel | 1 | A |
| 2 | RH | 23 | Wrist Roll | 1 | A |
| 2 | RH | 24 | Treadmill | 1 | A |
| 2 | CL | 1 | Biochemical Analyzer, Dry Test for Express Analysis w/reactives | 1 | A |
| 2 | CL | 2 | Spectrophotometer | 1 | B |
| 2 | CL | 3 | Laboratory Centrifuge (1000/2000/3000 rot/min for 10-20 probes for 10-20ml) | 2 | A |
| 2 | CL | 4 | Water Distillator | 1 | A |
| 2 | CL | 5 | Drying Cabinet w/Computer Control, 30 liters capa 40-250c | 2 | A |
| 2 | CL | 6 | Laboratory Microscope | 10 | A |
| 2 | CL | 7 | Osmometer, Automatic | 1 | C |
| 2 | CL | 8 | Electric Analytic Balance | 1 | A |
| 2 | CL | 9 | Refrigerator for Reagents and Test Materials with Regulated Temperature | 2 | A |

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|----------|-------|-----|--|---------------|-----------------------------|
| Hospital | Dept. | No. | | | |
| 2 | CL | 10 | Automatic Blood Cell Analyzer for 18 and more parameters w/reactives | 1 | A |
| 2 | CL | 11 | Laboratory AIDS Express-Tests | 1 | C |
| 2 | CL | 12 | Electrolyte Analyzer (K, Ca, Na, Cl, Mg) or reactives | 1 | B |
| 2 | CL | 13 | Blood Gas Analyzer | 1 | B |
| 2 | CL | 14 | Densitometer Electronic Handy Unit | 1 | A |
| 2 | CL | 15 | Coagulometer Electronic Handy Unit | 1 | C |
| 2 | CL | 16 | Hemoglobinmeter Electronic Handy Unit | 1 | C |
| 2 | CL | 17 | Refractometer Electronic Handy Unit (Express) | 1 | A |
| 2 | CL | 18 | Protrombinmeter Electronic Handy Unit (Express) | 1 | C |
| 2 | CL | 19 | Thermostat water Bath Type | 2 | A |
| 2 | CL | 20 | Analyzer Glucose Electronic Handy Unit (Express) | 1 | A |
| 2 | CL | 21 | Fume Hood | 2 | A |
| 2 | CL | 22 | Coagulometer, Automatic, 16 parameters | 1 | A |
| 2 | CL | 23 | Automatic Urine Analyzer | 1 | A |
| 2 | CL | 24 | Hemoglobinmeter | 1 | A |
| 2 | PH | 1 | Prescription Counter | 2 | A |
| 2 | PH | 2 | Refrigerator for Drugs | 1 | A |
| 2 | PH | 3 | Autoclave | 1 | A |
| 2 | PH | 4 | Electronic Analytical Balance | 1 | A |
| 2 | ST | 1 | Autoclave Vertical | 2 | A |
| 2 | ST | 2 | High Pressure Steam Sterilizer volume 400 liters or more | 2 | A |
| 2 | ST | 3 | Hot Air Sterilizer 200 liters capacity | 2 | A |
| 2 | ST | 4 | Ultrasonic Washing Machine for Instruments etc | 2 | A |
| 2 | ST | 5 | Anesthesia Apparatus Washing Machine | 1 | A |
| 2 | EM | 1 | Ultrasonic Nebulator w/mask and tubes | 1 | A |
| 2 | EM | 2 | Anaesthesia Apparatus w/Ventilator for Child and Adult O2/N2O | 1 | A |
| 2 | EM | 3 | Surgery Suction Unit Portable | 1 | A |
| 2 | EM | 4 | Electronic Balance for Newborn | 2 | A |
| 2 | EM | 5 | Electronic Tonometer Pediatric | 1 | A |
| 2 | EM | 6 | Spinal Cord Puncture Needle | 50 | A |
| 2 | EM | 7 | Phonendoscope | 5 | A |
| 2 | EM | 8 | Urine Catheter | 50 | A |
| 2 | EM | 9 | Infant Incubator | 1 | A |
| 2 | G | 1 | General Diagnostic Set (Stethoscope, Sphygmomanometer, etc) | 20 | A |
| 2 | G | 2 | Refrigerator for Drugs for Nurse Post at Words | 20 | A |
| 2 | G | 3 | Ambulance (Minibus Type) | 1 | A |
| 2 | G | 4 | Ambulance (4-Wheel Drive Type) for Country Side Visits | 1 | B |
| 2 | G | 5 | Minibus Panel Van for Transportation of Drugs, Materials, Food or Patients | 1 | A |
| 2 | G | 6 | Computer with Printer | 3 | A |
| 2 | G | 7 | Copy Machine | 3 | B |
| 2 | G | 8 | Air Conditioner | 10 | A |
| 2 | G | 9 | Infusion Pump | 12 | A |
| 2 | LD | 1 | Washing Machine, 50 lit./15kg | 2 | A |
| 2 | LD | 2 | Washing Machine, 25 lit./7kg | 2 | A |
| 2 | LD | 3 | Extractor (Centrifuge), 10kg | 2 | A |
| 2 | LD | 4 | Electric Boiler, 50 lit. | 1 | A |
| 2 | LD | 5 | Drying Machine, 7kg | 2 | A |
| 2 | LD | 6 | Ironing Machine with Table 170cm Width | 1 | A |
| 2 | LD | 7 | High Temperature Dry Air Disinfection Chamber, 1200-1500 cubic decimeter | 1 | A |

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Q'ty Requested | Priority by Kazakhstan Side |
|----------|------|----|---|----------------|-----------------------------|
| Hospital | Dept | No | | | |
| 2 | KT | 1 | Electric Copper. 60 lit for 1st and 2nd dishes | 2 | B |
| 2 | KT | 2 | Electric Frying-Pan for 25kg | 1 | B |
| 2 | KT | 3 | Electric Boiler. 100 lit. | 1 | B |
| 2 | KT | 4 | Electric Oven. 12.3kW per 1 section | 4 | B |
| 2 | KT | 5 | Food Rub-Grating Machine for Dietic Feeding | 1 | B |
| 2 | KT | 6 | Refregerating Chamber. 7.5 cubic meter for Food Storage | 3 | A |
| 2 | KT | 7 | Refregerating Cabinet, 500 cubic decimeter for Food Storage | 3 | A |
| 2 | KT | 8 | Bread Storage Cabinet for 120-150 pieces | 1 | B |
| 2 | KT | 9 | Potato Peeling Machine. 10kg | 1 | A |
| 2 | KT | 10 | Electric Meat Chopping (Grinding) Machine | 3 | A |
| 2 | KT | 11 | Steam Boiling Copper. 200 lit. | 1 | B |
| 2 | KT | 12 | Vegetable Cutting Machine | 1 | A |
| 2 | KT | 13 | Pastry Kneader. 50kg | 1 | B |
| 2 | KT | 14 | Roast Board 3 section | 1 | B |

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Q'ty Requested | Priority by Kazakhstan Side |
|----------|-------|----|---|----------------|-----------------------------|
| Hospital | Dept. | No | | | |
| 1 | X | 1 | General X-ray Unit | 1 | A |
| 1 | X | 2 | Automatic Film Processor | 1 | A |
| 1 | X | 3 | Ultrasound Unit w/Color Doppler, Impulse | 1 | B |
| 1 | X | 4 | Electrocardiograph (ECG) | 1 | A |
| 1 | ICU | 1 | Ventilator for Infant (newborn) | 3 | A |
| 1 | ICU | 2 | Resuscitation Table for Newborn Warming | 3 | A |
| 1 | ICU | 3 | Ultrasonic Nebulator w/mask and tubes | 5 | A |
| 1 | ICU | 4 | Neonatal Monitor | 6 | A |
| 1 | ICU | 5 | Electric Suction Unit for Newborn | 3 | A |
| 1 | ICU | 6 | Infant Incubator | 3 | A |
| 1 | ICU | 7 | Infusion Pump | 6 | A |
| 1 | ICU | 8 | Electronic Balance for Newborn 0-10kg | 6 | A |
| 1 | ICU | 9 | Refrigerator, Deep Freezer | 1 | B |
| 1 | ICU | 10 | Oxygen Supply Unit | 1 | A |
| 1 | NE | 1 | Echoencephalography (EEG) Unit for Newborn and Child | 1 | A |
| 1 | NE | 2 | Electronic Balance for Newborn | 1 | A |
| 1 | NE | 3 | Electromyograph | 1 | A |
| 1 | NE | 4 | Electric Suction Unit for Newborn | 3 | A |
| 1 | PE | 1 | Electronic Balance for Newborn | 2 | A |
| 1 | PE | 2 | Infant Incubator | 2 | A |
| 1 | PE | 3 | Ultrasonic Inhaler w/mask for children Izomed type | 3 | A |
| 1 | PE | 4 | Infusion Pump | 3 | A |
| 1 | PE | 5 | Electric Suction Unit for Newborn | 3 | A |
| 1 | NB | 1 | Electronic Balance for Newborn | 2 | A |
| 1 | NB | 2 | Electronic Tonometer | 2 | A |
| 1 | NB | 3 | Ultrasonic Inhaler w/mask for children Izomed type | 3 | A |
| 1 | NB | 4 | Infusion Pump | 3 | A |
| 1 | NB | 5 | Electric Suction Unit for Newborn | 3 | A |
| 1 | NB | 6 | Infant Incubator | 2 | A |
| 1 | FP | 1 | Microscope | 1 | A |
| 1 | FP | 2 | Gynecology / Obstetric Chair | 2 | B |
| 1 | FP | 3 | Set of Obstetric / Gynecology Instruments | 2 | B |
| 1 | CL | 1 | Automatic Blood Cell Analyzer w/reactives | 1 | A |
| 1 | CL | 2 | Biochemical Analyzer w/reactives | 1 | A |
| 1 | CL | 3 | Electrolyte Analyzer (K, Ca, Na, Cl, Mg) or reactives | 1 | A |
| 1 | CL | 4 | Spectrophotometer | 1 | C |
| 1 | CL | 5 | Laboratory Microscope Binocular | 2 | B |
| 1 | CL | 6 | Electronic Analytic Balance | 1 | A |
| 1 | CL | 7 | Blood Gas Analyzer | 1 | A |
| 1 | CL | 8 | pH-meter | 1 | A |
| 1 | CL | 9 | Transcutaneous Bilirubin Analyzer for Newborn up to 100mmol/l | 1 | A |
| 1 | CL | 10 | Coaglograph | 1 | A |
| 1 | LD | 1 | Washing Machine with Drying/Extracting Mode | 2 | A |
| 1 | LD | 2 | Ironing Unit | 1 | A |
| 1 | PC | 1 | Dental Chair Mounted Unit with Compressor and Dental Instrument Set | 1 | A |
| 1 | PC | 2 | ENT Chair Mounted Unit with ENT Instrument Set | 1 | A |
| 1 | PC | 3 | Ophthalmology Chair Mounted Unit with Lenses Diagnostic Set | 1 | A |
| 1 | PC | 4 | Electrocardiograph | 1 | A |
| 1 | G | 1 | General Diagnostic Pediatric Set (Stethoscope child, Sphygmomanometer, etc) | 20 | B |
| 1 | G | 2 | Ambulance (Minibus Type) | 1 | A |
| 1 | G | 3 | Minibus Panel Van for Transportation of Food/Drugs, etc. | 1 | A |

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Qty Requested | Priority by Kazakhstan Side |
|----------|-------|----|---|---------------|-----------------------------|
| Hospital | Dept. | No | | | |
| IN | X | 1 | X-ray Stationary Unit with 2 X-ray Tubes with Digital Processing & Telemetry for X-ray Scopy and X-ray Graphy | 1 | A |
| IN | X | 2 | Automatic Film Processor | 1 | A |
| IN | X | 3 | Mobile X-ray Unit | 1 | B |
| IN | ICU | 1 | Ventilator for Infant (newborn) and Child | 3 | A |
| IN | ICU | 2 | Anesthesia Apparatus w/Ventilator for Children and Adult | 1 | A |
| IN | ICU | 3 | Ultrasonic Nebulator w/mask and tubes | 3 | A |
| IN | ICU | 4 | Bedside Monitor (Breathing, Temperature, Pulse, ECG, O2 flow etc) | 9 | A |
| IN | ICU | 5 | Hardwire Central Monitor | 1 | A |
| IN | ICU | 6 | Infant Incubator | 1 | B |
| IN | ICU | 7 | Plazmapheresis Unit for 1 patient w/centrifuge and timer (Platelet, WBC, TPE) | 1 | A |
| IN | ICU | 8 | Infusion Pump | 9 | A |
| IN | ICU | 9 | Oxygen Supply Unit w/mask & monitor | 5 | A |
| IN | ICU | 10 | Electronic Balance for Newborn 0-10kg | 1 | A |
| IN | ICU | 11 | Blood Pressure Tonometer (Electronic Type) Pediatric | 5 | A |
| IN | ICU | 12 | Laryngoscope Set for Children | 3 | B |
| IN | ICU | 13 | Blood Haemosorbition Unit (Red Blood Cells) | 1 | B |
| IN | ICU | 14 | UV Extracorporeal Blood Disinfection | 1 | B |
| IN | ICU | 15 | Blood Refrigerator (Big capacity) | 1 | B |
| IN | EX | 1 | Echoencephalography Unit | 1 | B |
| IN | EX | 2 | Electronic Balance for Newborn | 1 | A |
| IN | EX | 3 | Multichannel Cardioanalyzer | 1 | A |
| IN | EX | 4 | Computer System for External Respiration (Spiroanalyzer) | 1 | A |
| IN | EX | 5 | 1-channel Electrocardiograph | 1 | A |
| IN | ES | 1 | Endoscope Cleaning Unit (Cabinet) | 2 | A |
| IN | ES | 2 | Ultrasound Washing Unit for Endoscopic Tools | 1 | B |
| IN | IIF | 1 | Electronic Balance for Newborn | 3 | A |
| IN | IIF | 2 | Electronic Balance for Adult | 1 | A |
| IN | IIF | 3 | Electronic Tonometer | 5 | A |
| IN | IIF | 4 | Ultrasonic Inhaler w/Mask for Children Izomed Type | 2 | A |
| IN | IIF | 5 | Infusion Pump | 3 | A |
| IN | VIF | 1 | Electronic Balance for Newborn | 2 | A |
| IN | VIF | 2 | Electronic Balance for Adult | 1 | A |
| IN | VIF | 3 | Electronic Tonometer | 3 | A |
| IN | VIF | 4 | Ultrasonic Inhaler w/Mask for Children Izomed Type | 2 | A |
| IN | VIF | 5 | Infusion Pump | 3 | A |
| IN | AIF | 1 | Electronic Balance for Newborn | 1 | A |
| IN | AIF | 2 | Electronic Balance for Adult | 1 | A |
| IN | AIF | 3 | Electronic Tonometer | 1 | A |
| IN | AIF | 4 | Ultrasonic Inhaler w/Mask for Children Izomed Type | 3 | A |
| IN | AIF | 5 | Infusion Pump | 3 | A |
| IN | CL | 1 | Automatic Blood Cell Analyzer for 23 Parameters w/reactives | 1 | A |
| IN | CL | 2 | Biochemical Analyzer w/reactives | 1 | A |
| IN | CL | 3 | Electrolyte Analyzer (K, Ca, Na, Cl, Mg) w/reactives | 1 | A |
| IN | CL | 5 | Spectrophotometer | 1 | B |
| IN | CL | 6 | Laboratory Microscope | 2 | B |
| IN | CL | 7 | Electronic Analytic Balance | 1 | A |
| IN | CL | 8 | Blood Gas Analyzer | 1 | A |
| IN | CL | 9 | pH-meter | 1 | B |

July 11, 2011

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Requested Equipment List

ANNEX - II

| Item No. | | | Description | Qty Requested | Priority by Kazakhstan Side |
|----------|-------|----|--|---------------|-----------------------------|
| Hospital | Dept. | No | | | |
| IN | CL | 10 | Coagulometer | 1 | A |
| IN | CL | 11 | Hemoglobinmeter Electronic Handy Unit | 1 | A |
| IN | CL | 12 | Refractometer Electronic Handy Unit (Express) | 1 | A |
| IN | CL | 13 | Analyzer Glucose (Blood, Urine etc) | 1 | A |
| IN | CL | 14 | Fume Hood | 1 | B |
| IN | CLB | 1 | Colony Counter | 2 | A |
| IN | CLB | 2 | Sterilizer Table Top (for loops, needles, & culture mouth tubes) | 1 | A |
| IN | CLB | 3 | pH-meter | 1 | A |
| IN | CLB | 4 | Multistation Nitrogen Dry Box | 1 | A |
| IN | CLB | 5 | Hiloop Autosterilizer (for metal loops) | 1 | A |
| IN | CLB | 6 | Fluorescent Microscope | 1 | A |
| IN | ST | 1 | High Pressure Steam Sterilizer, volume 200 liters or more | 1 | A |
| IN | ST | 2 | Hot Air Sterilizer, 200 liters capacity | 1 | A |
| IN | ST | 3 | Ultrasonic Washing Machine | 1 | A |
| IN | EM | 1 | Electronic Balance for Newborn | 1 | A |
| IN | EM | 2 | Electronic Tonometer Pediatric | 1 | A |
| IN | EM | 3 | Electronic Balance for Children and Adult | 1 | A |
| IN | G | 1 | General Diagnostic Set (Stethoscope, Sphygmomanometer, etc) | 10 | B |
| IN | G | 2 | Ambulance (Minibus Type) | 1 | A |
| IN | Milk | 1 | Milk processing Equipment Capacity 1000l/day for production of dietic milk, kefir, sour cream, yogurt, curdled cheese for dietic feeding of children 0-14 ages with packing line | 1 | A |
| IN | Milk | 2 | Minibus Panel Van for Transportation of Milk Products to Hospitals | 1 | A |

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Introductory Remarks ;**Hospital**

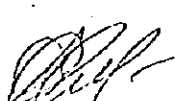
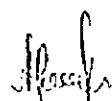
| | |
|----|--|
| 2 | City Children Hospital, No. 2 |
| 1 | City Children Hospital, No. 1 |
| IN | City Children Infectious Diseases Hospital |

Department

| | |
|------|---|
| X | Radiology Department |
| ICU | Reanimation Department |
| EY | Ophthalmology Department |
| EX | Functional Examination Department |
| ES | Endoscopy Department |
| SG | Surgery & Urology Department |
| OR | Traumatology & Orthopaedy Department |
| OP | Operation Department |
| CH | Cardiohematology Department |
| ENT | ENT Department |
| OD | Dentistry Room |
| RH | Physiotherapy & Rehabilitation Department |
| CL | Clinical Laboratory Department |
| PH | Pharmacy Department |
| ST | Sterilization Department |
| KT | Kitchen / Catering Department |
| EM | Emergency Reception - Diagnostic Department |
| G | General Hospital Equipment & Others |
| NE | Neurology Department |
| PE | Perinatal Rehabilitation Department |
| NB | Infant - Pediatric Department |
| FP | Family Planning Department |
| LD | Laundry Room |
| PC | Polyclinic / Ambulatory No. 5 |
| IIF | Intestinal Infectious Disease Department |
| VIF | Virus Infectious Disease Department |
| AIF | Aerial Infectious Disease Department |
| CLB | Bacteriology Laboratory |
| Milk | Milk Kitchen |

Item No. of Equipment

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MINUTES OF DISCUSSIONS
ON BASIC DESIGN STUDY
ON THE PROJECT FOR IMPROVEMENT OF MEDICAL EQUIPMENT
FOR CHILDREN HOSPITALS IN ASTANA CITY IN THE REPUBLIC OF KAZAKHSTAN
(EXPLANATION ON DRAFT REPORT)

In March, 1999, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for Improvement of Medical Equipment for Children Hospitals in Astana City in the Republic of Kazakhstan (hereinafter referred to as "the Project") to the Republic of Kazakhstan (hereinafter referred to as "Kazakhstan"), and through discussion, field survey, and technical examination of the results in Japan, JICA prepared a draft report of the study.

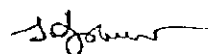
In order to explain and to consult the Kazakhstan side on the components of the draft report, JICA sent to Kazakhstan the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Dr. Kunihiko Hirabayashi, Expert Service Division, Bureau of International Cooperation, International Medical Center of Japan, Ministry of Health and Welfare from August 9 to August 25, 1999.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

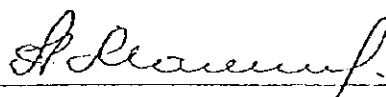
Astana, August 18, 1999

平本 国彦

Kunihiko Hirabayashi
Leader
Draft Report Explanation Team
Japan International Cooperation Agency
Japan



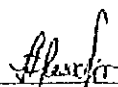
Aryn Yerlan Mukhtarovich
First Deputy Minister
Ministry of Health, Education and Sport
The Republic of Kazakhstan



Mamin Askar Uzakpaevich
First Vice Mayor
Astana City



Sergey Michailovich Demochkin
Chief Doctor and Chief Project Manager
City Children Hospital No. 2



Erlan A. Arinov
Head
External Aid Coordination
Agency on Strategic Planning and Reforms

ATTACHMENT

1. Components of the Draft Report

The Government of Kazakhstan agreed and accepted in principle the components of the draft report along with its amendments as explained by the Team.

The finally agreed list of equipment is attached as Annex-I.

2. Japan's Grant Aid scheme

The Kazakhstan side understands the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Kazakhstan as explained by the Basic Study Team and described in Annex-III and Annex-IV of the Minutes of Discussions signed by both parties on April 8, 1999.

3. Schedule of the Study

JICA will complete the final report in English in accordance with the confirmed item and submit it to the Government of Kazakhstan by November, 1999.

4. Other relevant issues

4-1. Both sides confirmed the responsible and implementing organizations as described in Annex-II.

4-2. On behalf of the Kazakhstan side, the Mayor of the Astana City strongly requested the Japanese side to introduce a CT scanner to the City Children Hospital No.2, which was not confirmed in the discussions as referred in Annex-I. And the Japanese side agreed to explain it to the Government of Japan.

4-3. The Kazakhstan side requested consultant services to make the Project more effective. And both sides agreed that the following technical advices on the Laboratory departments need to be included to the Project as the soft components.

(1) To improve the Laboratory management system.

(2) To strengthen the quality control methodologies.

4-4. Both sides agreed that the Kazakhstan side will submit annual report to the Japanese side at least during five years including suggested indicators such as the total number of the patients and the number of the patients from outside the Astana City using a designed form for the evaluation of the Project impact.

 The bottom of the page features several handwritten signatures and initials. From left to right, there is a signature that appears to be 'B. K.', followed by the number '134', and then two more signatures, one of which is clearly 'S. K.'.

List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|-------------------------------------|--|--------------|
| Children Hospital No. 2 | | |
| X-ray Department | | |
| 2-X-1 | CT Scanner | ***** |
| 2-X-2 | MRI | 0 |
| 2-X-3 | X-ray stationary unit for X-ray scopy and X-ray graphy | 1 |
| 2-X-12 | X-ray unit, general graphy | 1 |
| 2-X-4 | X-ray mobile unit | 2 |
| 2-X-5 | X-ray film processor, automatic | 1 |
| 2-X-6 (1) | X-ray film illuminator (1 film) | 2 |
| 2-X-6 (2) | X-ray film illuminator (3 films) | 2 |
| 2-X-6 (3) | X-ray film illuminator (6 films x 2 steps, mobile) | 1 |
| 2-X-7 | X-ray protective apron | 6 |
| 2-X-8 | X-ray cassette loading desk | 1 |
| 2-X-9 | X-ray film storage box | 1 |
| 2-X-10 | Ultrasound stationary unit with color doppler unit | 1 |
| 2-X-11 | Ultrasound unit, portable with Linear and Convex probe | 1 |
| 2-X-91 | X-ray film development set | 1 |
| Reanimation Department (ICU) | | |
| 2-ICU-1 | Ventilator for infant (Newborn) | 2 |
| 2-ICU-2 | Ventilator for children and adult | 3 |
| 2-ICU-3 | Ultrasonic nebulizer | 6 |
| 2-ICU-4 (1) | Patient monitor | 9 |
| 2-ICU-4 (2) | Neonatal monitor | 1 |
| 2-ICU-5 | Infant incubator | 3 |
| 2-ICU-6 | Plasmapheresis unit | 0 |
| 2-ICU-7 | Functionial Reanimation Bed (ICU bed) | 9 |
| 2-ICU-8 | Defibrillator with cart | 2 |
| 2-ICU-9 (1) | Infusion pump | 9 |
| 2-ICU-9 (2) | Syringe pump | 3 |
| 2-ICU-10 | Oxygen supply unit | 3 |
| 2-ICU-11 | Weighing scale for newborn | 1 |
| 2-ICU-12 | Weighing scale | 1 |
| 2-ICU-13 | Sphygmomanometer | 2 |
| 2-ICU-14 | Laryngoscope set for child with ambu bag | 9 |
| 2-ICU-15 | Blood haemosorbtion unit (Pump) | 1 |
| 2-ICU-16 | UV extracorporeal blood disinfection | 0 |
| 2-ICU-17 | Suction unit | 6 |
| 2-ICU-91 | Suction unit, low pressure continuous | 0 |
| 2-ICU-18 | Clavicular puncture disposable set | - |
| 2-ICU-19 | Peridural puncture disposable set | - |
| 2-ICU-20 | Spinal puncture disposable set | - |
| 2-ICU-21 | Refrigerator for reagent, test materials & blood | 2 |
| 2-ICU-92 | Pulse oxymeter | 2 |

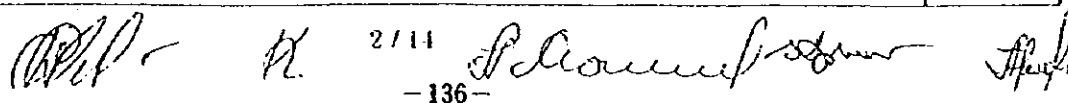
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List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|---|---|--------------|
| Ophthalmology Department | | |
| 2-EY-1 | Ophthalmoscope, handy unit | 4 |
| 2-EY-2 | Slit lamp | 2 |
| 2-EY-3 | Slit lamp for Infant | 0 |
| 2-EY-4 | Autorefractokeratometer | 1 |
| 2-EY-5 | Pachymeter with printer | 0 |
| 2-EY-6 | Ophthalmology lenses diagnostic set | 2 |
| 2-EY-7 | Fundus camera for stereoscopy eye examination | 1 |
| 2-EY-8 | Laser therapy unit | 0 |
| 2-EY-9 | Ophthalmo-chromoscope | 1 |
| 2-EY-10 | Ultrasound apparatus for ophthalmology | 1 |
| 2-EY-11 | Ophthalmology chair mounted unit | 1 |
| 2-EY-12 | Filed analyzer | 1 |
| Function Diagnostic Examination Department | | |
| 2-EX-1 | Echoencephalography | 0 |
| 2-EX-2 | Electromyograph (EMG) | 1 |
| 2-EX-3 | Weighing scale | 1 |
| 2-EX-4 | Cardioanalyzer, multichannel (12-ch) | 0 |
| 2-EX-5 | Spiroanalyzer | 1 |
| 2-EX-6 | Electroencephalograph (EEG), 18-ch | 1 |
| 2-EX-7 | Electrocardiograph (ECG), 6-ch | 1 |
| 2-EX-8 | Electrocardiograph (ECG), 1-ch | 1 |
| 2-EX-9 | Mingograph | 0 |
| Endoscopic Department | | |
| 2-ES-1 | Fiber-gastroscope pediatric set | 1 |
| 2-ES-2 | Fiber-colonoscopy pediatric set | 1 |
| 2-ES-3 | Fiber-bronchoscope pediatric set | 1 |
| 2-ES-4 | Laparoscope set for diagnostic | 0 |
| 2-ES-5 | Fiber-duodenoscope | 1 |
| 2-ES-6 | Tracoscope | 1 |
| 2-ES-7 | Universal light source for fiberscope | 3 |
| 2-ES-8 | Endoscopic suction pump | 3 |
| 2-ES-9 | Electrosurgical unit for endoscopy | 2 |
| 2-ES-10 | Endoscope cleaning set | 2 |
| 2-ES-11 | Ultrasonic washing unit, table top for endoscopic tools | 1 |
| 2-ES-12 | Anaesthesia apparatus | 1 |
| Surgical / Urology Department | | |
| 2-SG-1 | Suction unit | 5 |
| 2-SG-2 | Operation lamp, mobile with battery | 5 |
| 2-SG-3 | Cysto-urethrofiberscope | 1 |
| 2-SG-4 | Urodynamic monitor | 0 |
| 2-SG-5 | Stretcher | 0 |



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List of Equipment

ANNEX - I

| Item No. | Description | Qty Planned |
|---|--|-------------|
| 2-SG-6 | Coagulator | 0 |
| 2-SG-7 | Ultrasonic nebulizer | 1 |
| 2-SG-8 | Infant incubator | 1 |
| 2-SG-9 | Oxygen tent | 2 |
| 2-SG-10 | Anaesthesia apparatus with ventilator | 0 |
| 2-SG-11 | Ultrasonic surgical unit | 0 |
| 2-SG-12 | Drain system for abdominal cavity | - |
| 2-SG-13 | Thoracic drain system | - |
| 2-SG-14 | Puncture needle set (10 pcs./set) | 2 |
| 2-SG-15 | Osseous-Marrow drain tube | - |
| 2-SG-16 | Intestines intubation drain tube | - |
| 2-SG-17 | Oesophagus boogie set | 1 |
| 2-SG-18 | Operation table, universal | 0 |
| 2-SG-91 | Treatment table | 1 |
| Orthopaedy / Traumatology Department | | |
| 2-OR-1 | Arthroscope set | 1 |
| 2-OR-2 (1) | Functional traumatology bed, for adult | 5 |
| 2-OR-2 (2) | Functional traumatology bed, for child | 5 |
| 2-OR-3 | Wheel chair | 0 |
| 2-OR-4 | Loupe glass, binocular | 0 |
| 2-OR-5 | Traumatology rod apparatus | - |
| 2-OR-6 | Metal work tool set | - |
| 2-OR-7 | Spinal cord traction staple set | - |
| 2-OR-8 | Bone drilling, cutting and treatment unit | 0 |
| 2-OR-9 | Nebulizer | 1 |
| 2-OR-10 | Anaesthesia apparatus with ventilator | 0 |
| 2-OR-11 | Infant incubator | 1 |
| 2-OR-12 | Operation table | 0 |
| 2-OR-13 | Laser therapy unit | 0 |
| 2-OR-91 | Treatment table | 1 |
| Operation Department | | |
| 2-OP-1 | Anaesthesia apparatus with ventilator | 5 |
| 2-OP-2 | Operation table, universal type | 4 |
| 2-OP-3 | Operation table for orthopaedic | 1 |
| 2-OP-4 | Electrosurgical unit | 3 |
| 2-OP-5 | Coagulator | 0 |
| 2-OP-6 | Laparoscope set for operation, with monitor / video system | 1 |
| 2-OP-7 | X-ray mobile unit, for operation (C-arm, TV) | 1 |
| 2-OP-8 | Operation microscope for ophthalmology | 2 |
| 2-OP-9 | Ophthalmic surgery and microsurgery instrument set | 2 |
| 2-OP-10 | Operation suture materials for microsurgery | - |
| 2-OP-11 | Electrosurgical unit (for Ophthalmic Operation) | 2 |

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List of Equipment

ANNEX - I


| Item No. | Description | Qty Planned |
|----------|---|-------------|
| 2-OP-12 | Scissors, eye operation | - |
| 2-OP-13 | Suction unit (3 lit. x 2 btls) for Operation Room | 5 |
| 2-OP-14 | Operation lamp, mobile with battery | 5 |
| 2-OP-15 | Operation light, ceiling type | 3 |
| 2-OP-16 | Instrument set, Surgery instrument set for major operation | 2 |
| 2-OP-17 | Instrument set, Surgery instrument set for pediatric | 2 |
| 2-OP-18 | Instrument set, Surgery instrument set for new-born | 2 |
| 2-OP-19 | Hot air sterilizer | 2 |
| 2-OP-20 | Instrument set, Urology instrument set | 2 |
| 2-OP-21 | Cysto-urethroscope set, rigid type | 1 |
| 2-OP-22 | Instrument set, Microsurgery operation | 1 |
| 2-OP-23 | Cryosurgery set | 0 |
| 2-OP-24 | Electrosurgery high frequency unit | 0 |
| 2-OP-25 | Suture material (catgut, nylon etc) | - |
| 2-OP-26 | Universal suturing apparatus | - |
| 2-OP-27 | Hemostatic forceps (Mosquito) | - |
| 2-OP-28 | Hemostatic forceps (Kocher) | - |
| 2-OP-29 | Hemostatic forceps (Pean) | - |
| 2-OP-30 | Hemostatic forceps (Kelly) | - |
| 2-OP-31 | Needle holder | - |
| 2-OP-32 | Suture needle | - |
| 2-OP-33 | Suture scissors, straight | - |
| 2-OP-34 | Suture scissors, curved | - |
| 2-OP-35 | Operating knife handle | - |
| 2-OP-36 | Operating knife blade, disposable | - |
| 2-OP-37 | Operating scalpel | - |
| 2-OP-38 | Operating scissors, standard | - |
| 2-OP-39 | Scissors for angio-operations | - |
| 2-OP-40 | Surgical tweezers, 140mm | - |
| 2-OP-41 | Anatomy tweezers | - |
| 2-OP-42 | Instrument set, Traumatology (Orthopaedic) instrument set | 1 |
| 2-OP-43 | Instrument set, Traumatology (Orthopaedic) instrument set for child | 2 |
| 2-OP-44 | Operation microscope for neurosurgery operations | 1 |
| 2-OP-45 | Instrument set for operations on spinal cord (trauma and scholiasts) | 1 |
| 2-OP-46 | Instrument set, Neurosurgery instrument set | 1 |
| 2-OP-47 | Binocular loupe glass with fiber optic | 1 |
| 2-OP-48 | Instrument set for hip-pelvis operation of child with inborn dislocations | 1 |
| 2-OP-49 | Laser unit | 0 |
| 2-OP-50 | Instrument table | 5 |
| 2-OP-51 | Bone drilling, cutting and treatment unit | 2 |
| 2-OP-52 | Instrument set for operation on tendons | 1 |
| 2-OP-53 | Ultrasonic suction unit for brain operation | 0 |

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List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|------------------------------------|--|--------------|
| 2-OP-54 | Brain drain system, disposable | - |
| 2-OP-55 | Spinal cord distracter, Harrington type for scoliosys operation | - |
| 2-OP-56 | Hip-pelvis inborn dislocations fixator, 5 different size | - |
| 2-OP-57 | Spinal cord traction frame | - |
| 2-OP-58 | Metal work tool set | - |
| 2-OP-59 | Cancellous bone screw set | - |
| 2-OP-60 | Bone fracture fixing plate | - |
| 2-OP-61 | Intramedullar bone screw | - |
| 2-OP-62 | Bone rod for fracture apparatus (dia. 3mm-6mm) | - |
| 2-OP-63 | Bone holding forceps (Langenbeck) | - |
| 2-OP-64 | Bone holding forceps (Farabeuf-Lambotte) | - |
| 2-OP-65 | Bone cutting forceps (Liston) | - |
| 2-OP-66 | Rougeur forceps | - |
| 2-OP-67 | Goniometer | 1 |
| 2-OP-68 | UV hand washing apparatus | 3 |
| 2-OP-69 | UV disinfection lamp, mobile | 2 |
| 2-OP-70 | X-ray film illuminator (1 film) | 2 |
| 2-OP-71 | Bix holder (Dressing drum stand) | 10 |
| 2-OP-72 | Dermatorm | 2 |
| 2-OP-91 | Patient monitor | 5 |
| 2-OP-92 | High pressure steam sterilizer (200 lit.) with water softener | 2 |
| Cardiohematology Department | | |
| 2-CH-1 | Puncture needle set (10 pcs./set) | 2 |
| 2-CH-2 | Puncture needle set (for child) | 0 |
| 2-CH-3 | Weighing scale for newborn | 1 |
| 2-CH-4 | Weighing scale | 1 |
| 2-CH-5 | Stethoscope for infant | 3 |
| 2-CH-6 | Sphygmomanometer | 3 |
| 2-CH-7 | Catheter, urinal | - |
| 2-CH-8 | Infant incubator | 1 |
| 2-CH-9 | Functional bed (Gatch type) | 10 |
| 2-CH-10 | Aggregometer (Trombocyte analyzer) | 0 |
| 2-CH-91 | Pulse oxymeter | 2 |
| 2-CH-92 | Patient monitor | 1 |
| E.N.T Department | | |
| 2-ENT-1 | ENT instrument set | 2 |
| 2-ENT-2 | Audiometer for children | 1 |
| 2-ENT-3 | Electrosurgical unit | 1 |
| 2-ENT-4 | Instrument Set, Microsurgery instrument set for larynx operation | 2 |
| 2-ENT-5 | Fiber-Rhino-Laryngoscope set. | 1 |
| 2-ENT-6 | Sinusoscope | 0 |
| 2-ENT-7 | ENT suction unit | 3 |

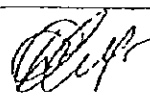

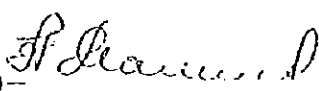
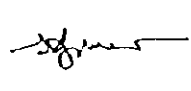



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ANNEX - I

| Item No. | Description | Qty Planned |
|--|---|-------------|
| 2-ENT-8 | Cryosurgery unit, ENT | 0 |
| 2-ENT-9 | Laser unit, ENT | 0 |
| 2-ENT-10 | Operation microscope, for ENT | 1 |
| 2-ENT-11 | Laryngoscope, ceiling set | 1 |
| 2-ENT-12 | Operation table, universal type | 1 |
| 2-ENT-13 | Anaesthesia apparatus | 1 |
| 2-ENT-14 | Ultrasonic nebulizer | 1 |
| 2-ENT-15 | Autoclave, desk top type | 1 |
| 2-ENT-16 | Air conditioner | 0 |
| 2-ENT-91 | ENT chair unit | 2 |
| Dental Department | | |
| 2-OD-1 | Dental unit with chair and air-compressor | 1 |
| 2-OD-2 | Dental instrument set | 1 |
| 2-OD-3 | Tooth filling preparation kit & material | - |
| 2-OD-4 | Electric oven | 0 |
| 2-OD-5 | Laboratory lathe | 0 |
| 2-OD-6 | Autoclave, desk top type | 1 |
| Physiotherapy & Rehabilitation Department | | |
| 2-RH-1 | Ultrahigh frequency current treatment apparatus (Shortwave 0 - 50W) | 2 |
| 2-RH-2 | Diadinamical current treatment apparatus | 0 |
| 2-RH-3 | Electric analgesia and TENS therapy unit | 2 |
| 2-RH-4 | Artificial electric sleep apparatus | 0 |
| 2-RH-5 | Ultratone frequency treatment apparatus | 0 |
| 2-RH-6 | Ultrahigh frequency current treatment apparatus | 0 |
| 2-RH-7 | Low frequency alternating magnetic therapy unit | 1 |
| 2-RH-8 | UV treatment unit (whole body) | 2 |
| 2-RH-9 | Ultrasound wave therapy treatment unit | 2 |
| 2-RH-10 | Ultrasonic nebulizer | 2 |
| 2-RH-11 | Electric massage treatment unit | 0 |
| 2-RH-12 | Laser therapy unit | 0 |
| 2-RH-13 | Ortho trac, portable | 0 |
| 2-RH-14 | Hydro bubbler bath | 1 |
| 2-RH-15 | Ankle and leg exerciser | 0 |
| 2-RH-16 | Lower limb extension | 0 |
| 2-RH-17 | Rowing imitator | 0 |
| 2-RH-18 | Exercise stairs | 0 |
| 2-RH-19 | Perceptual motor training set | 0 |
| 2-RH-20 | Curb and mill | 0 |
| 2-RH-21 | Rotary shoulder & elbow apparatus | 0 |
| 2-RH-22 | Shoulder wheel | 0 |
| 2-RH-23 | Wrist roll | 0 |
| 2-RH-24 | Treadmill | 1 |



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List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|---------------------------------------|---|--------------|
| Clinical Laboratory Department | | |
| 2-CL-1 | Biochemical analyzer | 1 |
| 2-CL-2 | Spectrophotometer | 1 |
| 2-CL-3 (1) | Centrifuge (General) | 2 |
| 2-CL-3 (2) | Centrifuge (Hematocrit) | 2 |
| 2-CL-4 | Water distiller, 10 lit./h | 1 |
| 2-CL-5 | Hot air sterilizer | 2 |
| 2-CL-6 (1) | Microscope, binocular | 5 |
| 2-CL-6 (2) | Microscope, fluorescent | 1 |
| 2-CL-7 | Osmometer | 0 |
| 2-CL-8 | Electronic analytical balance | 1 |
| 2-CL-9 | Refrigerator for reagent, test materials & blood | 2 |
| 2-CL-10 | Blood cell counter | 1 |
| 2-CL-11 | HIV test kit | 0 |
| 2-CL-12 | Electrolyte analyzer (Na, K, Cl / Ca) | 1 |
| 2-CL-13 | Blood gas analyzer | 1 |
| 2-CL-14 | Electrophoresis with densitometer electronic | 1 |
| 2-CL-15 | Coagrometer, handy unit | 0 |
| 2-CL-16 | Hemoglobinmeter, handy unit | 0 |
| 2-CL-17 | Refractometer | 1 |
| 2-CL-18 | Protorombinmeter | 0 |
| 2-CL-19 | Water bath, thermostat type | 2 |
| 2-CL-20 | Glucose analyzer, handy unit | 0 |
| 2-CL-21 | Fume hood | 1 |
| 2-CL-22 | Coagulometer, semi-automatic | 1 |
| 2-CL-23 | Automatic urine analyzer | 1 |
| 2-CL-24 | Hemoglobinmeter | 0 |
| 2-CL-91 | Magnetic stirrer, with heater | 2 |
| 2-CL-92 | Roller for test tube | 2 |
| 2-CL-93 | Micropipette | 10 |
| 2-CL-94 | Pipette washer | 1 |
| 2-CL-95 | Glassware washer | 1 |
| Pharmacy Department | | |
| 2-PH-1 | Prescription counter | 2 |
| 2-PH-2 | Refrigerator for reagent, test materials & blood | 1 |
| 2-PH-3 | Autoclave, vertical Type | 0 |
| 2-PH-4 | Electronic analytical balance | 1 |
| 2-PH-91 | Water distiller, 10 lit./h | 1 |
| 2-PH-92 | Rack for reagent | 1 |
| Sterilization Department | | |
| 2-ST-1 | Autoclave, vertical Type | 0 |
| 2-ST-2 | High pressure steam sterilizer (400 lit.) with water softener | 2 |

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List of Equipment

ANNEX - I

| Item No. | Description | Qty Planned |
|--|--|-------------|
| 2-ST-3 | Hot air sterilizer | 2 |
| 2-ST-4 | Ultrasonic washing machine for instrument | 1 |
| 2-ST-5 | Anaesthesia apparatus washing machine | 0 |
| 2-ST-91 | Bottle sterilizer (100 lit) | 1 |
| Emergency Reception - Diagnostic Department | | |
| 2-EM-1 | Ultrasonic nebulizer | 1 |
| 2-EM-2 | Anaesthesia apparatus with ventilator | 1 |
| 2-EM-3 | Suction unit | 1 |
| 2-EM-4 | Weighing scale for newborn | 1 |
| 2-EM-5 | Sphygmomanometer (Aneroid type) | 1 |
| 2-EM-6 | Puncture needle set (10 pcs./set) | 2 |
| 2-EM-7 | Stethoscope for infant | 5 |
| 2-EM-8 | Catheter, urinal | - |
| 2-EM-9 | Infant incubator | 1 |
| General Hospital Equipment & Others | | |
| 2-G-1 | General diagnostic set | 15 |
| 2-G-2 | Refrigerator for drugs for nurse post at wards | 12 |
| 2-G-3 | Ambulance (Minibus type) | 1 |
| 2-G-4 | Ambulance | 0 |
| 2-G-5 | Minibus panel van | 0 |
| 2-G-6 | Computer | 0 |
| 2-G-7 | Photocopy machine | 0 |
| 2-G-8 | Air conditioner | 6 |
| 2-G-9 | Infusion pump | 0 |
| 2-G-91 | Stretcher | 5 |
| 2-G-92 | Wheel chair | 5 |
| Laundry Department | | |
| 2-LD-1 | Washing machine, 30kg | 2 |
| 2-LD-2 | Washing machine, 25lit. / 7kg | 0 |
| 2-LD-3 | Extractor (Laundry) | 2 |
| 2-LD-4 | Electric boiler (Hot water) | 1 |
| 2-LD-5 | Drying machine (Laundry) | 2 |
| 2-LD-6 | Ironing machine (Laundry) with table 150cm width | 1 |
| 2-LD-7 | High temp. dry air disinfection chamber | 0 |
| Kitchen | | |
| 2-KT-1 | Electric copper, 60 lit. | 0 |
| 2-KT-2 | Electric frying pan, 25kg | 0 |
| 2-KT-3 | Electric boiler, (Hot water, 100lit.) | 1 |
| 2-KT-4 | Electric oven, 12.3kW/section | 0 |
| 2-KT-5 | Food rub-grating machine | 0 |
| 2-KT-6 | Refrigerating chamber 7.5m ³ | 0 |
| 2-KT-7 | Refrigerating cabinet (500 lit.) | 3 |

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List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|----------|-------------------------------------|--------------|
| 2-KT-8 | Bread storage machine, 120-150 pcs. | 0 |
| 2-KT-9 | Potato peeling machine, 10kg | 0 |
| 2-KT-10 | Electric meat chopping machine | 0 |
| 2-KT-11 | Steam boiling copper, 200lit. | 0 |
| 2-KT-12 | Vegetable cutting machine | 0 |
| 2-KT-13 | Pastry kneader, 50kg | 0 |
| 2-KT-14 | Roast board, 3 section | 0 |

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List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|--|---|--------------|
| Children Hospital No. 1 | | |
| X-ray Department | | |
| 1-X-1 | X-ray stationary unit for X-ray scopy and X-ray graphy | 1 |
| 1-X-2 | X-ray film processor, automatic | 1 |
| 1-X-3 | Ultrasound stationary unit with color doppler unit | 0 |
| 1-X-4 | Electrocardiograph (ECG), 6-ch | 1 |
| 1-X-91 | X-ray film development set | 1 |
| 1-X-92 | X-ray protective apron | 2 |
| 1-X-93 | Ultrasound unit, portable with Linear and Convex probe | 1 |
| 1-X-94 | X-ray mobile unit | 1 |
| Reanimation Department (ICU) | | |
| 1-ICU-1 | Ventilator for infant (Newborn) | 3 |
| 1-ICU-2 | Resuscitation table for newborn warming (Infant warmer) | 3 |
| 1-ICU-3 | Ultrasonic nebulizer | 2 |
| 1-ICU-4 | Neonatal monitor | 6 |
| 1-ICU-5 | Suction unit | 3 |
| 1-ICU-6 | Infant incubator | 3 |
| 1-ICU-7 (1) | Infusion pump | 4 |
| 1-ICU-7 (2) | Syringe pump | 2 |
| 1-ICU-8 | Weighing scale for newborn | 1 |
| 1-ICU-9 | Refrigerator for reagent, test materials & blood | 1 |
| 1-ICU-91 | Oxygen supply unit | 1 |
| 1-ICU-92 | Pulse oxymeter | 2 |
| Neurology Department | | |
| 1-NE-1 | Electroencephalograph (EEG), 18-ch | 1 |
| 1-NE-2 | Weighing scale for newborn | 1 |
| 1-NE-3 | Electromyograph (EMG) | 1 |
| 1-NE-4 | Electrocardiograph (ECG), 12-ch | 0 |
| 1-NE-5 | Suction unit | 3 |
| Perinatal Rehabilitation Department | | |
| 1-PE-1 | Weighing scale for newborn | 1 |
| 1-PE-2 | Infant incubator | 2 |
| 1-PE-3 | Nebulizer | 3 |
| 1-PE-4 (1) | Infusion pump | 1 |
| 1-PE-4 (2) | Syringe pump | 3 |
| 1-PE-5 | Suction unit | 3 |
| 1-PE-91 | Phototherapy unit | 2 |
| Infant - Pediatric Department | | |
| 1-NB-1 | Weighing scale for newborn | 1 |
| 1-NB-2 | Sphygmomanometer | 2 |
| 1-NB-3 | Nebulizer | 3 |
| 1-NB-4 (1) | Infusion pump | 3 |

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ANNEX - I

| Item No. | Description | Q'ty Planned |
|--|--|--------------|
| 1-NB-4 (2) | Syringe pump | 1 |
| 1-NB-5 | Suction unit | 3 |
| 1-NB-6 | Infant incubator | 2 |
| Family Planning Department | | |
| 1-FP-1 | Microscope, binocular | 1 |
| 1-FP-2 | Obstetric / Gynaecology examination chair | 1 |
| 1-FP-3 | Obstetric / Gynaecology instrument set | 2 |
| Clinical Laboratory Department | | |
| 1-CL-1 | Blood cell counter | 1 |
| 1-CL-2 | Biochemical analyzer | 1 |
| 1-CL-3 | Electrolyte analyzer (Na, K, Cl / Ca) | 1 |
| 1-CL-4 | Spectrophotometer | 1 |
| 1-CL-5 | Microscope, binocular | 2 |
| 1-CL-6 | Electronic analytical balance | 1 |
| 1-CL-7 | Blood gas analyzer | 1 |
| 1-CL-8 | pH-meter | 1 |
| 1-CL-9 | Bilirubin analyzer | 1 |
| 1-CL-10 | Coagulometer, semi-automatic | 1 |
| 1-CL-91 | Magnetic stirrer, with heater | 2 |
| 1-CL-92 | Roller for test tube | 2 |
| 1-CL-93 | Micropipette | 10 |
| 1-CL-94 | Pipette washer | 1 |
| 1-CL-95 | Glassware washer | 1 |
| 1-CL-96 (1) | Centrifuge (General) | 1 |
| 1-CL-96 (2) | Centrifuge (Hematocrit) | 1 |
| Laundry Department | | |
| 1-L-1 (1) | Washing machine, 30kg | 2 |
| 1-L-1 (2) | Extractor (Laundry) | 2 |
| 1-L-1 (3) | Drying machine (Laundry) | 2 |
| 1-L-2 | Ironing machine (Laundry) with table 150cm width | 1 |
| Policlinic No. 5 | | |
| 1-PC-1 (1) | Dental unit with chair and air-compressor | 1 |
| 1-PC-1 (2) | Dental instrument set | 1 |
| 1-PC-2 (1) | ENT chair unit | 1 |
| 1-PC-2 (2) | ENT instrument set | 1 |
| 1-PC-3 (1) | Ophthalmology chair mounted unit | 1 |
| 1-PC-3 (2) | Ophthalmology lenses diagnostic set | 1 |
| 1-PC-3 (3) | Ophthalmology instrument set | 1 |
| 1-PC-4 | Electrocardiograph (ECC), 6-ch | 1 |
| General Hospital Equipment & Others | | |
| 1-G-1 | General diagnostic set | 6 |
| 1-G-2 | Ambulance | 1 |
| 1-G-3 | Minibus panel van | 0 |

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List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|---|---|--------------|
| Children Infectious Disease Hospital | | |
| X-ray Department | | |
| 3-X-1 | X-ray stationary unit for X-ray scopy and X-ray graphy | 1 |
| 3-X-2 | X-ray film processor, automatic | 1 |
| 3-X-3 | X-ray mobile unit | 1 |
| 3-X-91 | X-ray film development set | 1 |
| 3-X-92 | X-ray protective apron | 2 |
| 3-X-93 | Ultrasound unit, portable with Linear and Convex probe | 1 |
| Reanimation Department (ICU) | | |
| 3-ICU-1 (1) | Ventilator for infant (Newborn) | 2 |
| 3-ICU-1 (2) | Ventilator for child and adult | 1 |
| 3-ICU-2 | Anaesthesia apparatus with ventilator | 0 |
| 3-ICU-3 | Ultrasonic nebulizer | 3 |
| 3-ICU-4 | Patient monitor | 9 |
| 3-ICU-5 | Central monitor | 0 |
| 3-ICU-6 | Infant incubator | 1 |
| 3-ICU-7 | Plasmapheresis unit | 0 |
| 3-ICU-8 (1) | Infusion pump | 7 |
| 3-ICU-8 (2) | Syringe pump | 2 |
| 3-ICU-9 | Oxygen supply unit | 1 |
| 3-ICU-10 | Weighing scale for newborn | 1 |
| 3-ICU-11 | Sphygmomanometer (Aneroid type) | 2 |
| 3-ICU-12 | Laryngoscope set for child with ambu bag | 3 |
| 3-ICU-13 | Blood hemosorbtion unit (Pump) | 1 |
| 3-ICU-14 | UV Extracorporeal blood disinfection | 0 |
| 3-ICU-15 | Refrigerator for reagent, test materials & blood | 1 |
| 3-ICU-91 | Suction unit | 2 |
| 3-ICU-92 | Suction unit, Low pressure continuous | 0 |
| 3-ICU-93 | Pulse oxymeter | 1 |
| Functional Examination Department | | |
| 3-EX-1 | Echoencephalography unit | 0 |
| 3-EX-2 | Weighing scale for newborn | 1 |
| 3-EX-3 | Cardioanalyzer, Multichannel | 0 |
| 3-EX-4 | Spiroanalyzer | 1 |
| 3-EX-5 | Electrocardiograph (ECG), 1-ch | 1 |
| 3-EX-91 | Electrocardiograph (ECG), 6-ch | 1 |
| 3-EX-92 | Electroencephalograph (EEG), 18-ch | 1 |
| Endoscopy Department | | |
| 3-ES-1 | Endoscope cleaning set | 2 |
| 3-ES-2 | Ultrasonic washing unit, table-top for endoscopic tools | 1 |

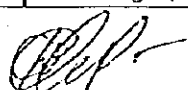
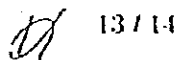


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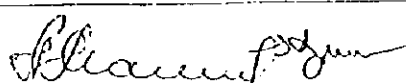
ANNEX - I

| Item No. | Description | Q'ty Planned |
|---|---|--------------|
| IIF : Intestinal Infectious Disease Department | | |
| 3-IIF-1 | Weighing scale for newborn | 1 |
| 3-IIF-2 | Weighing Scale | 1 |
| 3-IIF-3 | Sphygmomanometer | 3 |
| 3-IIF-4 | Ultrasonic nebulizer | 2 |
| 3-IIF-5 (1) | Infusion pump | 3 |
| 3-IIF-5 (2) | Syringe pump | 1 |
| VIF : Virus Infectious Disease Department | | |
| 3-VIF-1 | Weighing scale for newborn | 1 |
| 3-VIF-2 | Weighing scale | 1 |
| 3-VIF-3 | Sphygmomanometer | 3 |
| 3-VIF-4 | Ultrasonic nebulizer | 2 |
| 3-VIF-5 (1) | Infusion pump | 3 |
| 3-VIF-5 (2) | Syringe pump | 1 |
| AIF : Aerial Infectious Disease Department | | |
| 3-AIF-1 | Weighing scale for newborn | 1 |
| 3-AIF-2 | Weighing scale | 1 |
| 3-AIF-3 | Sphygmomanometer | 3 |
| 3-AIF-4 | Ultrasonic nebulizer | 2 |
| 3-AIF-5 (1) | Infusion pump | 3 |
| 3-AIF-5 (2) | Syringe pump | 1 |
| Clinical Laboratory Department | | |
| 3-CL-1 | Blood cell counter | 1 |
| 3-CL-2 | Biochemical analyzer | 1 |
| 3-CL-3 | Electrolyte analyzer (Na, K, Cl, or Ca) | 1 |
| 3-CL-5 | Spectrophotometer | 1 |
| 3-CL-6 | Microscope, binocular | 2 |
| 3-CL-7 | Electronic analytical balance | 1 |
| 3-CL-8 | Blood gas analyzer | 1 |
| 3-CL-9 | pH-meter | 1 |
| 3-CL-10 | Coagulometer, semi-automatic | 1 |
| 3-CL-11 | Hemoglobinmeter | 0 |
| 3-CL-12 | Refractometer, handy unit (express) | 1 |
| 3-CL-13 | Glucose analyzer | 0 |
| 3-CL-14 | Fume hood | 1 |
| 3-CL-91 | Magnetic stirrer, with heater | 2 |
| 3-CL-92 | Roller for test tube | 2 |
| 3-CL-93 | Micropipette | 10 |
| 3-CL-94 | Pipette washer | 1 |
| 3-CL-95 | Glassware washer | 1 |
| 3-CL-96 (1) | Centrifuge (General) | 1 |
| 3-CL-96 (2) | Centrifuge (Hematocrit) | 1 |

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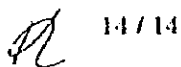
-147-



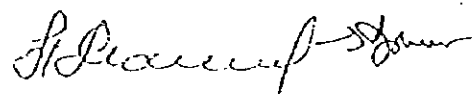

List of Equipment

ANNEX - I

| Item No. | Description | Q'ty Planned |
|--|---|--------------|
| Bacteriology Laboratory | | |
| 3-CLB-1 | Colony counter (manual test) | 1 |
| 3-CLB-2 | Autoclave, desk top type | 0 |
| 3-CLB-3 | pH-meter | 1 |
| 3-CLB-4 | Nitrogen dry box, multistation | 0 |
| 3-CLB-5 | Sterilizer | 0 |
| 3-CLB-6 | Microscope, stereoscope (x50) | 1 |
| 3-CLB-91 | Autoclave, vertical type | 1 |
| 3-CLB-92 | CO2 Incubator | 0 |
| 3-CLB-93 | Microscope, binocular | 1 |
| Sterilization Department | | |
| 3-ST-1 | High pressure steam sterilizer (200 lit.) with water softener | 1 |
| 3-ST-2 | Hot air sterilizer | 1 |
| 3-ST-3 | Ultrasonic washing unit, table top | 1 |
| Emergency Reception - Diagnostic Department | | |
| 3-EM-1 | Weighing scale for newborn | 1 |
| 3-EM-2 | Sphygmomanometer (Aneroid type) | 1 |
| 3-EM-3 | Weighing Scale | 1 |
| General Hospital Equipment & Others | | |
| 3-G-1 | General diagnostic set | 6 |
| 3-G-2 | Ambulance (4WD) | 0 |
| Milk Plant | | |
| 3-MILK-1 | Milk processing Equipment | 0 |
| 3-MILK-2 | Minibus panel van | 0 |

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Supervising Organizations

Committee of Health, under the Ministry of Health, Education and Sport

Implementing Organizations

Astana City (Administration)

Agreement /Contract with Consultant and Procurement Company Banking Arrangement

Issue of " Authorization to Pay"

Bureau of Health, Astana City

Project Manager
* Appointed by Mayor of Astana City

Responsible for Project policy, Basic Design, Specification, Scheduling

City Children Hospital No.1
City Children Hospital No.2
City Children Infectious Diseases Hospital

Coordinating Organizations

Agency on Strategic Planning and Reforms

Coordinating on Foreign Aid by donors

Ministry of Foreign Affairs

Responsible for External issues (Exchange of Notes, etc.)
Supporting to coordination of issues related several ministries / agencies

ANNEX-II

[Handwritten signatures]

5. 当該国の社会・経済事情

1998. 10 1/2

| | |
|----|-------------------------------------|
| 国名 | カサフスタン共和国 Republic of Kazakhstan |
|----|-------------------------------------|

| 一般指標 | | | | |
|----------|--------------------------|----|----------|-------------------------------|
| 政体 | 共和制 | *1 | 首都 | アスタナ *1 |
| 元首 | Nursultan Nazarbayev | *1 | 主要都市名 | アルマトイ、カカトウ、ケレタ *1 |
| 独立年月日 | 1991年12月16日 | *1 | 経済活動可人口 | 8千人 (1995年) *4 |
| 人種(部族)構成 | トルコ系46% ロシア系35% | *1 | 義務教育年数 | 11年間 (1997年) *5 |
| | ドイツ6% ウズベク5% | | 初等教育就学率 | % (年) *5 |
| 言語・公用語 | カザフ語、ロシア語 | *1 | 初等教育終了率 | % (年) *6 |
| 宗教 | イスラム教スンニ派、ロシア正教 | *1 | 識字率 | 99.0 % (1995年) *7 |
| 国連加盟 | 1992年03月 | *2 | 人口密度 | 6人/Km ² (1996年) *1 |
| 世銀加盟 | 1992年07月 | *3 | 人口増加率 | -0.2 % (1996年) *1 |
| IMF加盟 | 1996年07月 | *3 | 平均寿命 | 平均64.09 男58.56 女69.9 *1 |
| 面積 | 2,717.00千Km ² | *1 | 5歳児未満死亡率 | (年) *7 |
| 人口 | 1,652,000千人(1996年) | *1 | カロリー供給量 | cal/日/人(年) *7 |

| 経済指標 | | | | |
|------------|------------------------|----|---------|-------------------------|
| 通貨単位 | テング | *1 | 貿易量 | (1997年) *8 |
| 為替(1US\$) | 1US\$=76.95 (1998年06月) | *8 | 輸入 | 4,275.0百万ドル *8 |
| 会計年度 | 1月~12月 | *1 | 輸出 | 6,366.0百万ドル *8 |
| 国家予算 | (1996年) | *9 | 輸入カバー率 | 3.0月 (1996年) *10 |
| 歳入 | 4,560.8百万ドル | *9 | 主要輸出品目 | 石油、ガス、銅、すず、鉛 (1995年) *1 |
| 歳出 | 5,670.2百万ドル | *9 | 主要輸入品目 | 電気機器、化学品、医薬品 (1995年) *1 |
| 国際収支 | 479.70百万ドル(1997年) | *9 | 日本への輸出 | 194.2百万ドル(1997年) *11 |
| ODA受取額 | 百万ドル(年) | *7 | 日本からの輸入 | 30.6百万ドル(1997年) *11 |
| 国内総生産(GDP) | 21,413.00百万ドル(1995年) | *4 | | |
| 一人当たりGNP | 1,330.0ドル (1995年) | *4 | 外貨準備総額 | 1,414.5百万ドル(1998年3月) *8 |
| GDP産業別構成 | 農業 12.0 % (1995年) | *4 | 対外債務残高 | 695.0百万ドル(1996年) *10 |
| | 鉱工業 30.0 % (1995年) | | 対外債務返済率 | 9.9 % (1996年) *10 |
| | サービス業 57.0 % (1995年) | | インフレ率 | 161.0 % (1995年) *7 |
| 産業別雇用 | 農業 % (年) *7 | | | |
| | 鉱工業 % (年) | | | |
| | サービス業 % (年) | | 国家開発計画 | *12 |
| 経済成長率 | -11.9 % (1995年) | *1 | | |

| 気象(~ 年平均) | | 場所: | | | | | | | | | | | | (標高 m) | |
|------------|---|-----|---|---|---|---|---|---|---|----|----|----|--------|--------|-----|
| 月 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 平均 / 計 | | |
| 最高気温 | | | | | | | | | | | | | | °C | *13 |
| 最低気温 | | | | | | | | | | | | | | °C | *13 |
| 平均気温 | | | | | | | | | | | | | | °C | *14 |
| 降水量 | | | | | | | | | | | | | | mm | *13 |
| 雨期乾期 | | | | | | | | | | | | | | | |

*1 CIA World Fact Book 1997-1998
 *2 Member States of United Nations
 *3 The World Bank Public Information Center, International Financial Statistics Yearbook 1998
 *4 World Development Report 1997
 *5 UNESCO Statistical Yearbook 1997
 *6 Status and Trends 1997
 *7 Human Development Report 1998

*8 International Financial Statistics August 1998
 *9 International Financial Statistics Yearbook 1997
 *10 Global Development Finance 1998
 *11 世界の国一覽表 1998年版
 *12 最新世界各国要覽 98年版
 *13 The Times Book World Weather Guide, Update Edition
 *14 理科年表, 国立天文台(1997)

| | |
|----|------------------------|
| 国名 | カザフスタン共和国 |
| | Republic of Kazakhstan |

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| 項目 | 年度 | 1993 | 1994 | 1995 | 1996 |
|--------|----|----------|----------|----------|----------|
| 技術協力 | | 2,892.93 | 3,087.67 | 3,256.28 | 3,461.48 |
| 無償資金協力 | | 2,244.22 | 2,456.48 | 2,796.65 | 2,606.79 |
| 有償資金協力 | | 3,939.97 | 4,352.21 | 3,878.11 | 3,025.02 |
| 総額 | | 9,077.12 | 9,896.36 | 9,931.04 | 9,093.29 |

*15

| 項目 | 年度 | 1993 | 1994 | 1995 | 1996 |
|--------|----|------|------|------|------|
| 技術協力 | | 0.85 | 1.62 | 3.89 | 8.66 |
| 無償資金協力 | | 0.00 | 0.00 | 0.51 | 0.00 |
| 有償資金協力 | | 0.00 | 0.00 | 0.00 | 0.30 |
| 総額 | | 0.85 | 1.62 | 4.40 | 8.96 |

*16

| | 贈与 (1) | 有償資金協力 (2) | 政府開発援助 (ODA) (1)+(2)=(3) | その他政府資金 及び 民間資金 (4) | 経済協力総額 (3)+(4) |
|-------------------|-----------|---------------|--------------------------------|------------------------------|-------------------|
| 二国間援助 (主要供与国) | 85.70 | 7.80 | 93.50 | | 93.50 |
| 1. アメリカ | 63.00 | 0.00 | 63.00 | | 63.00 |
| 2. ドイツ | 5.80 | 7.50 | 13.30 | | 13.30 |
| 3. 日本 | 8.70 | 0.30 | 9.00 | | 9.00 |
| 4. イギリス | 3.90 | 0.00 | 3.90 | | 3.90 |
| 多国間援助 (主要援助機関) | 24.10 | 6.00 | 30.10 | | 30.10 |
| 1. CEC | | | | | |
| 2. ASDB | | | | | |
| その他 | 0.30 | 0.00 | 0.30 | | 0.30 |
| 合計 | 110.10 | 13.80 | 123.90 | | 123.90 |

*17

| | |
|-----|--|
| 技術 | |
| 無償 | |
| 協力隊 | |

*15 Japan's ODA Annual Report 1997

*16 Geographical Distribution of Financial Flows to Aid Recipients 1992-1996

*17 国別協力情報(JICA)

JICA