

APPENDIX 4
MINUTES OF DISCUSSIONS

MEMORANDUM
FOR THE RECORD

1. Basic Design Study Team

MINUTES OF DISCUSSIONS
BASIC DESIGN STUDY ON THE PROJECT FOR
IMPROVEMENT OF PUBLIC TRANSPORTATION
IN ULAAN BAATAR IN MONGOLIA

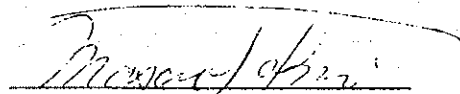
Based on the results of the Preliminary Study, the Japan International Cooperation Agency (JICA) decided to conduct a Basic Design Study on the Project for Improvement of Public Transportation in Ulaan Baatar in Mongolia (hereafter referred to as "The Project").

JICA sent to Mongolia a study team, which is headed by Mr. Masao Takai, Director of Basic Design Study Division, Grant Aid Study and Design Department, JICA, and is scheduled to stay in the country from September 28 to October 25, 1994.

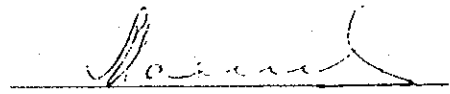
The team held discussions with the officials concerned of the Government of Mongolia and conducted a field survey at the study area.

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

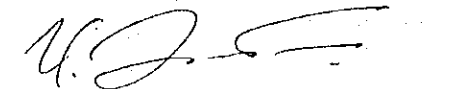
Ulaan Baatar, October 6, 1994



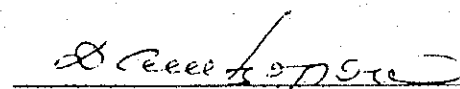
Masao Takai
Leader
Basic Design Study Team
JICA



Ts. Manlajav
General Director, Department
of Transport, Ministry of
Infrastructure Development (MID)



Ch. Enebish
Deputy Director of Department of
International Trade and Cooperation
Ministry of Trade and Industry
(MTI)



Sh. Dashtseren
Chairman, Transport
Department of Ulaan Baatar City

ATTACHMENT

1. Title of the Project

The Project for Improvement of Public Transportation in Ulaan Baatar in Mongolia.

2. Objective

The objective of the Project is to improve public transportation service in Ulaan Baatar, providing necessary equipment to the Transport Department of Ulaan Baatar City.

3. Project Site

Buses to be provided under the Project shall be placed at the Sub Depot of the Passenger Transport Bus-1 Company of Ulaan Baatar City located at Khan-uul Duureg in Ulaan Baatar City, which is under the control of the Transport Department of Ulaan Baatar City.

Construction Site of the workshop for the Project is in the area of the Sub Depot of Passenger Transport Bus-1 Company of Ulaan Baatar City.
(Project site map is attached as ANNEX-I.)

4. Executing Agency

Ministry of Infrastructure Development of Mongolia is responsible for administration and Transport Department of Ulaan Baatar City is responsible for execution of the Project.

5. Items requested by the Government of Mongolia

The Mongolian side showed the following requests as a result of discussions between the Mongolian officials concerned and the team.

- 1) Large size bus 60 ~ 90 units with spare parts
- 2) Repair and maintenance equipment for workshop 1 set
- 3) Improvement of the facilities which will be necessary for the sound operation and maintenance of the products mentioned in 1) and 2) above

In addition, Mongolian side requested technical cooperation by Japanese experts and/or JOCVs for the sound operation, maintenance and management of the Project.

6. Items agreed

- (1) This Project shall be implemented in close relationship to the World Bank's development policy on the Mongolian urban transport sector. Thus the Mongolian side is highly expected in their self effort for the repair and maintenance of the bus fleet.
- (2) The team will recommend to the Government of Japan to provide maximum 40 buses as urgent project, based on the preliminary analysis as of September, 1994.
- (3) The basic specification of the bus shall be as mentioned in the specification sheets prepared by the team on October 4, 1994.
- (4) The following improvement of the facilities will be necessary for the sound operation. Thus, in addition to the buses requested by the Mongolian side, the following items shall be included in the Basic Design Study.
 - 1) Construction of a new workshop building which meets the capacity of the garages located in the Project Site.
 - 2) Renovation of the car washing facility
 - 3) Construction of a new power house
- (5) The Transport Department of Ulaan Baatar City shall have the ownership of buses, equipment and facilities to be provided under the Project.

7. Japan's Grant Aid System

- (1) The Government of Mongolia understood the system of Japan's Grant Aid explained by the team. Especially, the executing agency should be a public entity.
- (2) The Government of Mongolia will take necessary measures described in ANNEX-II, for smooth implementation of the Project on condition that the Grant Aid Assistance by the Government of Japan is extended to the Project.

8. Schedule of the Study

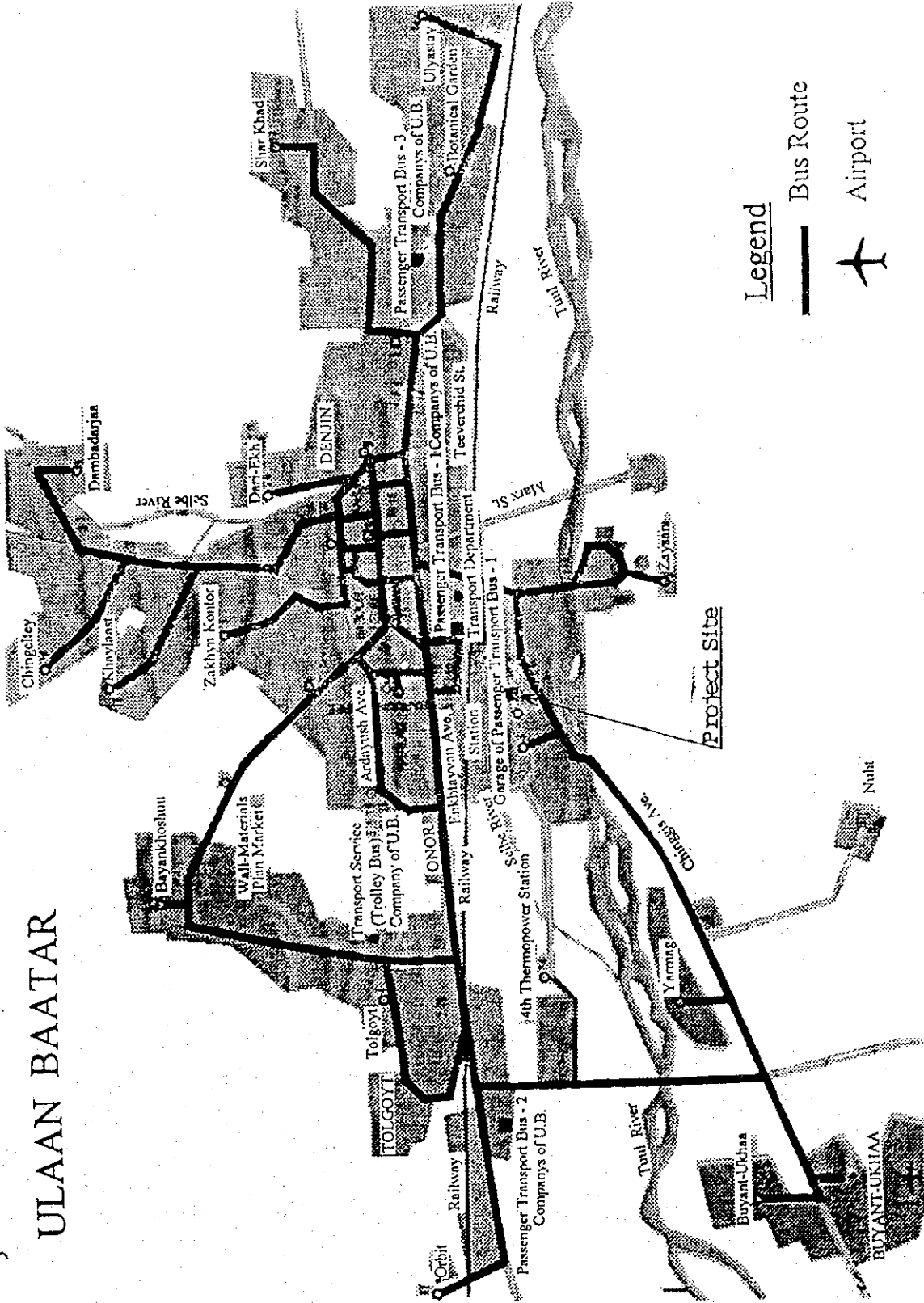
- (1) The consultants will proceed to further studies in Mongolia until October 25, 1994.
- (2) JICA will prepare the draft report in English and dispatch a mission in order to explain its contents around January, 1995.
- (3) In case that the contents of the draft report is accepted in principle by the Mongolian side, JICA will complete the final report and send it to the Government of Mongolia by April, 1995.

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M.C. 7

UULAAN BAATAR



Legend
 — Bus Route
 ✈ Airport

Annex-I Site Location Map

ANNEX-II:

Necessary measures to be taken by the Government of Mongolia in case that Japan's Grant Aid is executed are as follows:

1. To secure, clear and level the site for the Project prior to the commencement of the construction to be done under the Grant Aid Program, including temporary land for a construction liaison office, warehouse, stockyard, etc.
2. To provide following and other incidental facilities to the Project site prior to commencement of the works.
 - 1) Electricity distribution line to the site
 - 2) Water supply line to the site
 - 3) Drainage and sewage line from the site
 - 4) Telephone trunk line to the main distribution panel to be installed in a building
 - 5) General furniture such as carpets, curtains, tables, chairs, etc.
 - 6) Steam distribution line to the Project site.
3. To bear advising commission of Authorization to Pay (A/P) and payment commission to a Japanese foreign exchange bank for the banking services based on the Banking Arrangement (B/A).
4. To ensure prompt unloading, tax exemption, customs clearance and prompt internal transportation of the materials and products provided under the Grant.
5. To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as may be necessary for their entry to Mongolia and stay therein for the execution of the Project.
6. To exempt Japanese nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Mongolia with respect to the supply of the products and services under the verified contract.
7. To provide necessary permissions, licenses and other authorizations for carrying out the Project.

8. To bear all the expenses, other than those covered by the Grant, necessary for the construction of the facilities as well as for the transportation and the installation of the equipment.
9. To coordinate and solve any matters related which may arise with third party and inhabitants living in the Project area during implementation of the Project.
10. To provide necessary data and information for detailed design.
11. To give permission required for boring and topographic survey at the Project site, if necessary.
12. To take necessary actions to expedite the approval for executions of the Project by the authorities concerned in Mongolia.
13. To witness and confirm by the authorities concerned when site test are carried out at the time of construction.
14. To take necessary measures for inhabitant's cooperation and traffic control, if necessary.
15. To provide disposal places of the soil, water, etc., discharged during the construction period.
16. To provide a bench mark at the construction site.
17. To ensure that the facilities constructed and the products purchased under the Grant be maintained and used properly and effectively for the execution of the Project.

2. Draft Report Explanation Team

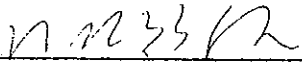
MINUTES OF DISCUSSIONS
BASIC DESIGN STUDY ON THE PROJECT FOR
IMPROVEMENT OF PUBLIC TRANSPORTATION
IN ULAAN BAATAR IN MONGOLIA
(CONSULTATION ON DRAFT REPORT)

In October 1994, the Japan International Cooperation Agency (JICA) dispatched a Basic Design Study team on the Project for Improvement of Public Transportation in Ulaan Baatar (hereinafter referred to as "the Project") to Mongolia, and through discussions, field survey, and technical examination of the results in Japan, has prepared the draft report of the study.

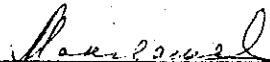
In order to explain and to consult the Mongolian side on the components of the draft report, JICA sent to Mongolia a study team, which is headed by Mr. Hiroyasu Murakashi, Grant Aid Division, Economic Cooperation Bureau, Ministry of Foreign Affairs, and is scheduled to stay in the country from January 9 to 14, 1995.

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


Ulaan Baatar, January 13, 1995



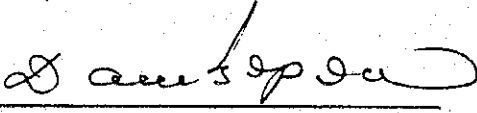
Hiroyasu Murakashi
Leader
Draft Report Explanation
JICA



Ts. Manlajav
General Director, Department
of Transport, Ministry of
Infrastructure Development (MID)



P. Narangua
Director of Department of
International Trade and Cooperation
Ministry of Trade and Industry
(MTI)



Sh. Dashtseren
Chairman, Transport
Department of Ulaan Baatar City

ATTACHMENT

1. Components of draft report

The Government of Mongolia has agreed and accepted in principle the components of the draft report proposed by the team.

2. Japan's Grant Aid system

- 1) The Government of Mongolia has understood the system of Japanese Grant Aid explained by the team.
- 2) The Government of Mongolia will take the necessary measures, described in Annex for smooth implementation of the Project on condition that the Grant Aid assistance by the Government of Japan is extended to the Project.

3. Future schedule

The team will make the final report in accordance with the confirmed items, and send it to the Government of Mongolia by April 1995.

4. Technical cooperation

The Mongolian side pointed out the need for dispatch of Japanese experts and/or JOCVs. They also understood that technical cooperation cannot be requested in the Grant Aid system and that another official request should be submitted through diplomatic channels.

ANNEX:

Necessary measures to be taken by the Government of Mongolia in case that Japan's Grant Aid is executed are as follows:

1. To secure, clear and level the site for the Project prior to the commencement of the construction to be done under the Grant Aid Program, including temporary land for a construction liaison office, warehouse, stockyard, etc.
2. To provide following and other incidental facilities to the Project site prior to commencement of the works.
 - 1) Electricity distribution line to the site
 - 2) Water supply line to the site
 - 3) Drainage and sewage line from the site
 - 4) Telephone trunk line to the main distribution panel to be installed in a building
 - 5) General furniture such as carpets, curtains, tables, chairs, etc.
 - 6) Hot water line to the site.
3. To bear advising commission of Authorization to Pay (A/P) and payment commission to a Japanese foreign exchange bank for the banking services based on the Banking Arrangement (B/A).
4. To ensure prompt unloading, tax exemption, customs clearance and prompt internal transportation of the materials and products provided under the Grant.
5. To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as may be necessary for their entry to Mongolia and stay therein for the execution of the Project.
6. To exempt Japanese nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Mongolia with respect to the supply of the products and services under the verified contract.
7. To provide necessary permissions, licenses and other authorizations for carrying out the Project.

8. To bear all the expenses, other than those covered by the Grant, necessary for the construction of the facilities as well as for the transportation and the installation of the equipment.
9. To coordinate and solve any matters related which may arise with third party and inhabitants living in the Project area during implementation of the Project.
10. To provide necessary data and information for detailed design.
11. To give permission required for boring and topographic survey at the Project site, if necessary.
12. To take necessary actions to expedite the approval for executions of the Project by the authorities concerned in Mongolia.
13. To witness and confirm by the authorities concerned when site test are carried out at the time of construction.
14. To take necessary measures for inhabitant's cooperation and traffic control, if necessary.
15. To provide disposal places of the soil, water, etc., discharged during the construction period.
16. To provide a bench mark at the construction site.
17. To ensure that the facilities constructed and the products purchased under the Grant be maintained and used properly and effectively for the execution of the Project.

M.A. R. P. " J.K.

APPENDIX 5
COUNTRY DATA

11/11/11
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COUNTRY DATA

Basic Indices			
Political system	Republic		*1
President	President Punsalmaagiyn Ochirbat		*1
Date of independence		July 11, 1921	
People (constituant tribe)	Mongolian 90%, Kazakh 4%		*1
Language	Mongolian		*1
Religion	Tibetan Buddhism		*1
Enterance to the U.N.		October 1961	
Enterance to the World Bank & IMF		February 1991	
Area		1,565,000km ²	*1
Population		2,367,000 (1993)	*1
Capital city	Ulaan Baatar		*1
Major cities	Darkhan, Erdenet		
Work force			*1
Years of mandetory schooling		8 years (1992)	
Percent entering elementary school		% (1992)	*2
Rate of literacy		%	*1
Population density		1.0person/km ² (1992)	*2
Rate of pop. increase		2.62% (1993)	*2
Average live span	65.77years (male: 63.5 y) (female: 68.1 y)		*1
Infant mortality rate (before 5y)		44.9/1000 (1993)	*1
Calory intake		2,360.0 cal/day/person (1990)	*2

Economic indicators			
Currency	Tugrik		*1
Exchange rate (per US\$1)	1US\$ = 411.69Tg (Average between April to September, 1994)		*3
Fiscal year	January to December		*1
National Budget			
Revenue		US\$ million	*2
Expenditures		US\$ million	*2
Ballance of international payments		US\$ million	*2
Amount of ODA received		US\$105.00 million (1992)	*2
GDP		US\$1,264.6 million (1992)	*2
Per capita GDP		US\$	*2
GDP per sector	Agriculture	%	*2

	Industry	%		
	Service	%		
Employment per sector	Agriculture	40.0%	(1992)	*2
	Industry	21.0%	(1992)	
	Service	39.0%	(1992)	
Rate of economic growth		-7.6%	(1992)	*2
Trade				*3
Exports		US\$ million		*2
Imports		US\$ million		*2
Import cover rate		%		*2
Main exports	copper, livestock, livestock products			*1
Main imports	machinery, food products, fuel			*1
Exports to Japan		US\$43.0 million	(1992)	*5
Imports from Japan		US\$37.0 million	(1992)	*5
Foreign currency reserves		US\$ million		*1
Foreign dept		US\$374.5 million	(1992)	*4
Rate of dept payment		7.1%	(1992)	*4
Inflation rate		195.8%	(1992)	*2
National development plan				*5

*1 The World Factbook, C.I.A.

*2 Human Development Report, UNDP.

*3 International Financial Statistics, IMF.

*4 World Debt Tables, WORLD.

*5 Saishin Sekai Kakkoku Youran (Newest Country Data), Tokyo Shoseki.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave /total
Max temp.	-19.0	-13.0	-4.0	7.0	13.0	21.0	22.0	21.0	14.0	6.0	-6.0	-16.0	3.8°C
Min temp.	-32.0	-29.0	-22.0	-8.0	-2.0	7.0	11.0	8.0	2.0	-8.0	-20.0	-28.0	-10.0°C
Ave. temp.	-25.5	-21.0	-13.0	-0.5	5.5	14.0	16.5	14.5	8.0	-1.0	-13.0	-22.0	-3.1°C
Precipitation	0.0	0.0	3.0	5.0	10.0	28.0	76.0	51.0	23.0	5.0	5.0	3.0	209.0mm
Wet season													
Dry season													

*6

Total Japanese ODA		(Monetary aid is based on the promised amount, unit: 100 mil yen)			
Item/Year	1989	1990	1991	1992	
Grant Aid	2,043.46	2,382.47	2,515.30	2,699.97	
Technical Aid	2,146.74	1,989.63	2,050.70	2,194.95	
Loan Aid	5,161.42	5,676.39	7,364.47	5,852.05	
Total	9,351.62	10,048.49	11,930.47	10,746.97	

*6

Japanese ODA to Mongolia		(Total net amount, Unit: million US dollars)			
Item/Year	1989	1990	1991	1992	
Grant Aid	0.97	1.37	3.29	4.45	
Technical Aid	0.97	0.32	20.98	25.46	
Loan Aid	0.00	0.00	24.47	12.19	
Total	1.94	1.69	48.74	42.10	

*7

Economic cooperation of ODA countries		(Total net amount, Unit: million US dollars)				
	Amount granted (1)		Loan aid (2)	Official Development Aid (ODA) (1) + (2) = (3)	Other government and private funds	Total economic aid (3) + (4)
		technical aid				
Bilateral Aid (Granting country)	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
Multilateral Aid (Granting agency)	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

*8

Aid acceptance route	
Technical	Concerned Ministry/Organization MITI
Grant	Concerned Ministry/Organization MITI
Volunteers	Concerned Ministry/Organization MITI

*6 Wagakunino Seifu Kaihatsu Enjo (Japan's ODA), Ministry of Foreign Affairs.*7 Kaigai Keizai Kyoryoku Benran (Foreign Economic Aid Handbook), Kaizai Keizai Kyoroku Kikin.*8 Kokubetsu Kyoryoku Jouhou (Aid Information by Country), JICA.

Appendix 6
COST ESTIMATION BORNE BY MONGOLIAN SIDE

10/10/2010

10/10/2010

COST ESTIMATION BORNE BY MONGOLIAN SIDE

1. Hot Water line Connection Work

- 1) Removing of the Existing Pipes ($\phi 150\text{mm} \times 100\text{m} \times 2$ lines)

about $5,000 \text{ yen/m} \times 200\text{m} = \text{about } 1,000,000 \text{ Yen}$

- 2) Installation of new pipes ($\phi 200\text{mm} \times 100\text{m} \times 2$ lines)

about $25,000 \text{ yen/m} \times 200\text{m} = \text{about } 5,000,000 \text{ Yen}$

1) + 2) about $6,000,000 \text{ Yen}$

2. Telephone line Connection

- 1) Telephone line extension (4 lines, city line to the site)

- 2) Telephone line construction (connection point at site to the workshop)

1) + 2) about $300,000 \text{ Yen}$

3. Procurement of Furniture, Curtain, etc.

about $1,700,000 \text{ Yen}$

Total about $8,000,000 \text{ Yen}$ (about $320,000,000\text{Tg}$)

Appendix 7
Project Site Boring Data

1. **Author:**
[Illegible text]

Legend

There is fence.

There is a building.

The planing building

Bore hole, it's number

Line of engineering-geological cross-section

Vegetation soils

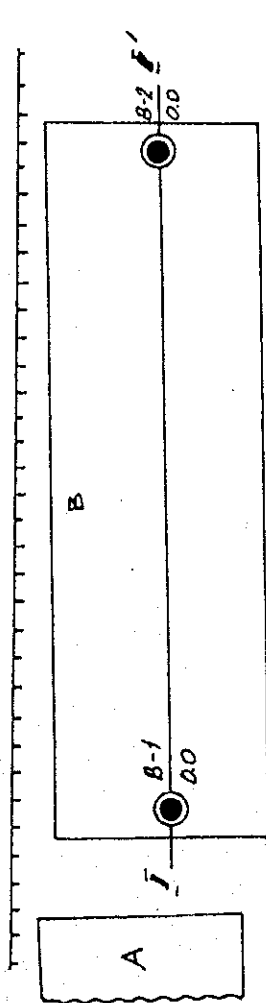
Pebbles and gravels with sands

Bounds of grounds

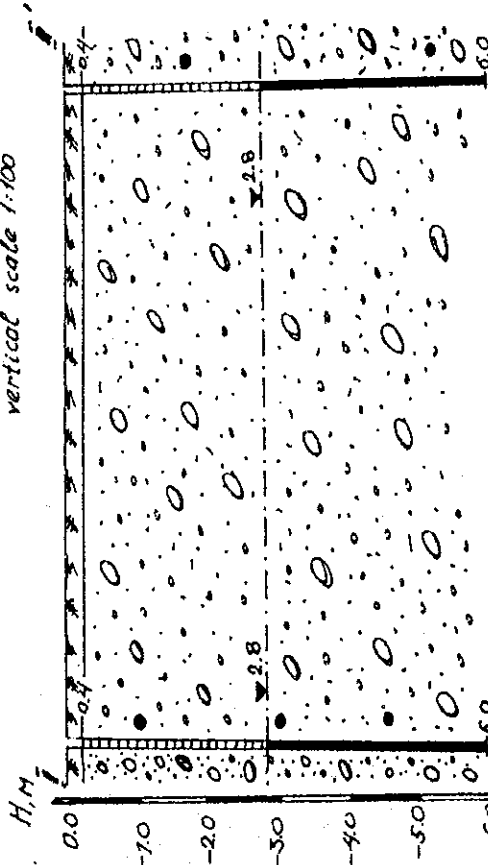
Level of ground-water

with little moisture

water saturated



horizontal scale 1:1000
vertical scale 1:100



Number of boreholes	B-1	B-2
Elevation	0.0	0.0
Distance between the boreholes	90.0	

Boring data for the Cashmere Factory Neighboring the Project Site

Features of Soil for Project Site

Soil Mass Y, g/cm	Soil Mass Capacity E, kg/cm	Soil Bearing Capacity C, kg/cm	Internal Friction Angle φ, degree
2.20	500	0.02	43

JICA

