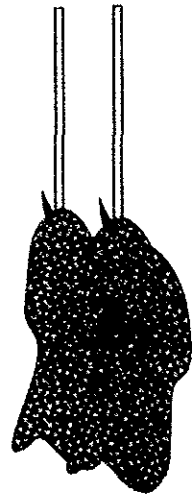


- e -30°C GAS
- c -10°C GAS
- m -30°C LIQUID
- p -10°C LIQUID
- e -10°C LIQUID
- e -30°C DEFOUST RETURN
- e -10°C DEFOUST RETURN
- e -10°C DEFOUST RETURN
- e -45°C DEFOUST RETURN
- e -30°C DEFOUST RETURN
- e -45°C LIQUID
- e -30°C LIQUID
- e -45°C GAS

- Ammonia Suction Pipe line
- Liquid Ammonia Pipe line
- Ammonia Drain Pipe line & Pressure Gauge Piping
- Hot Ammonia Gas Pipe line
- Water Pipe line
- Flanged Joint
- Reducer
- Existing Water Top with Funnel
- Stop Valve
- Strainer
- Expansion valve / Needle valve
- Thermo register valve
- Servo-controlled main valve
- Check Valve
- Solenoid Valve
- Pressure Gauge
- Thermometer
- Thermostat (on Electrical Drawing)
- Tape Electric Heater for drain water piping
- Designation & Number of Solenoid Valve on Electrical Drawings
- Insulation Thickness (in mm)
- Equipment No.
- Flow Direction
- Air cut valve
- Solenoid pilot valve
- Pressure controlled pilot valve

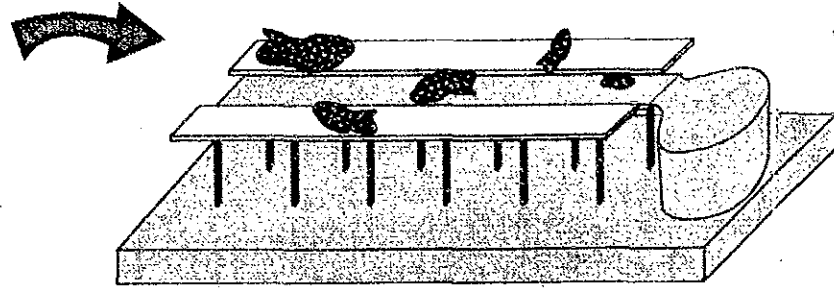
更新系統圖

DISTRIBUTION DIAGRAM
(RENOVATION OF EXISTING REFRIGERATION FACILITIES)



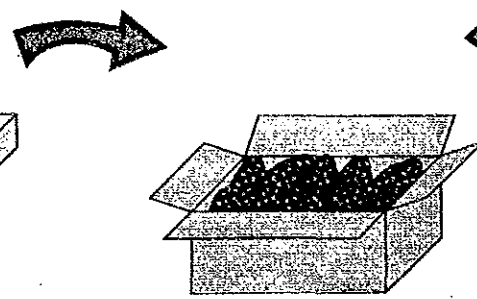
冷却室にて枝肉冷却

CHILL CARCASS
AT CHILLED CARCASS STORAGE



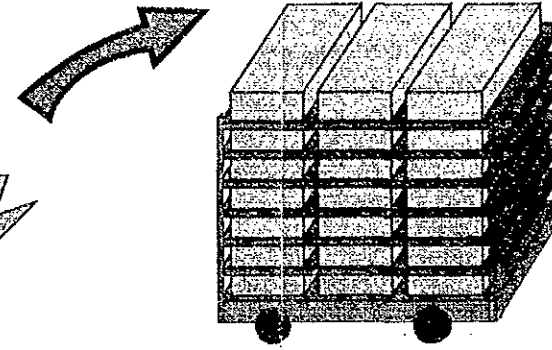
部分肉処理室にて部分肉にカット

CUT CARCASS INTO CUT-MEAT
AT CUTTING ROOM



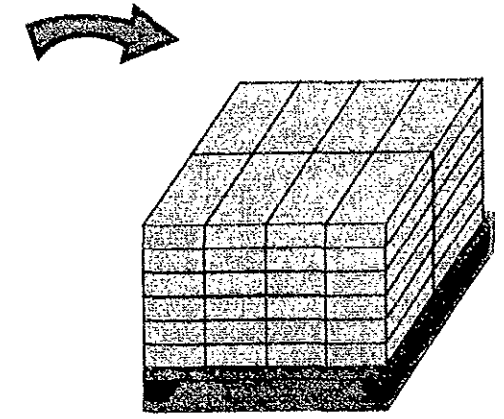
カット肉・内蔵をダンボール箱に詰める

PACK CUT-MEAT INTO
CARDBOARD BOXES



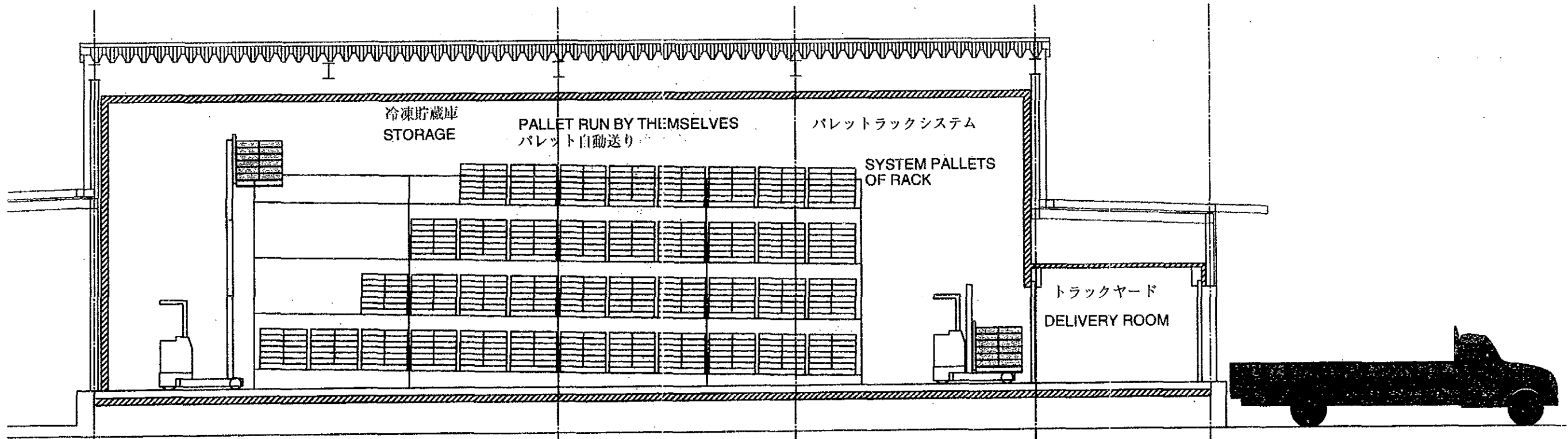
急速凍結室にて24時間凍結

FREEZE PACKED CUT-MEAT
IN 24 HOURS AT FREEZE ROOM



荷捌き室にて専用パレットに積み替え

PILE ON PALLET FOR SYSTEM RACK
AT ANTEROOM

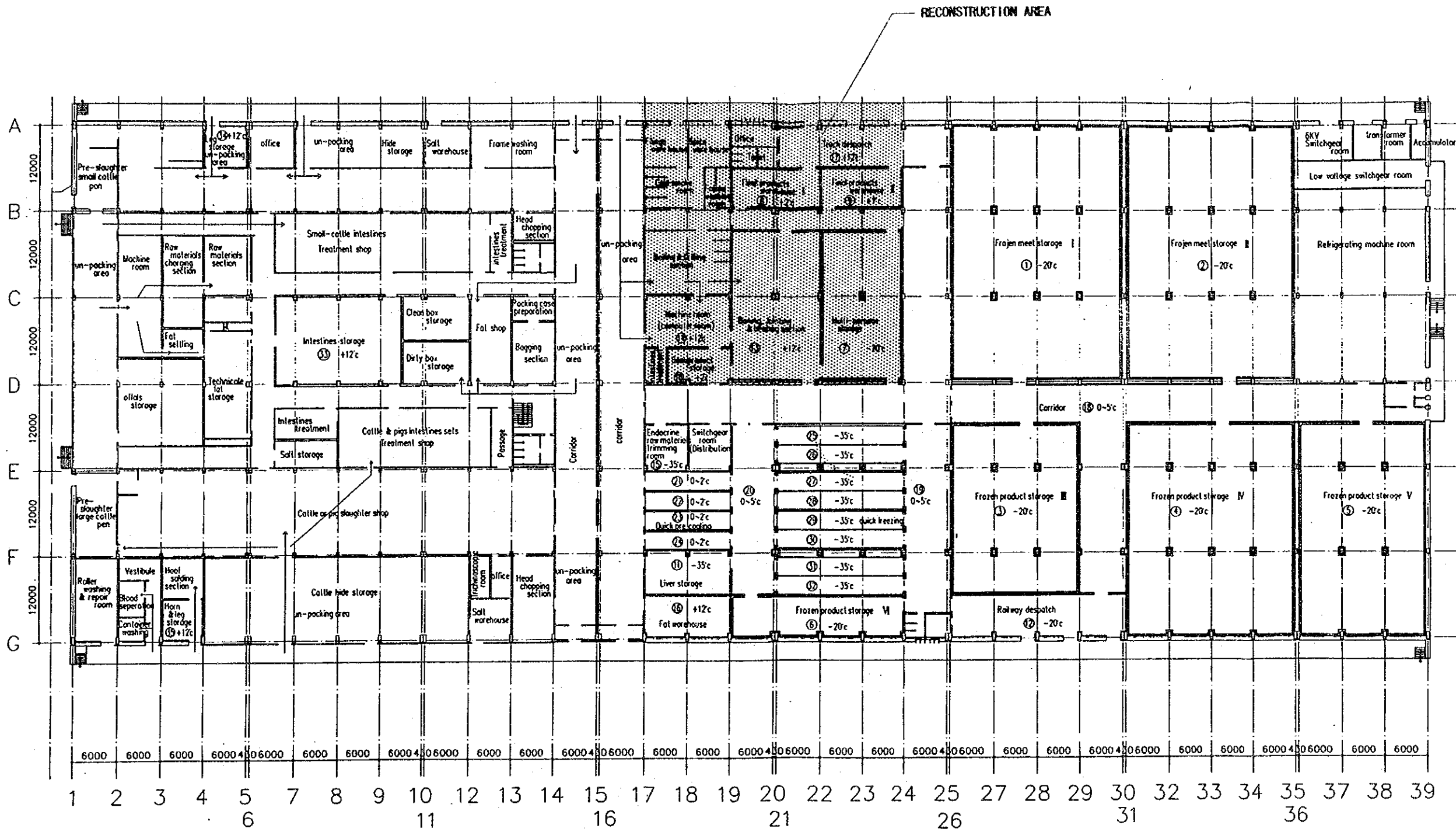


フォークリフトにて自走ラックに積み込み

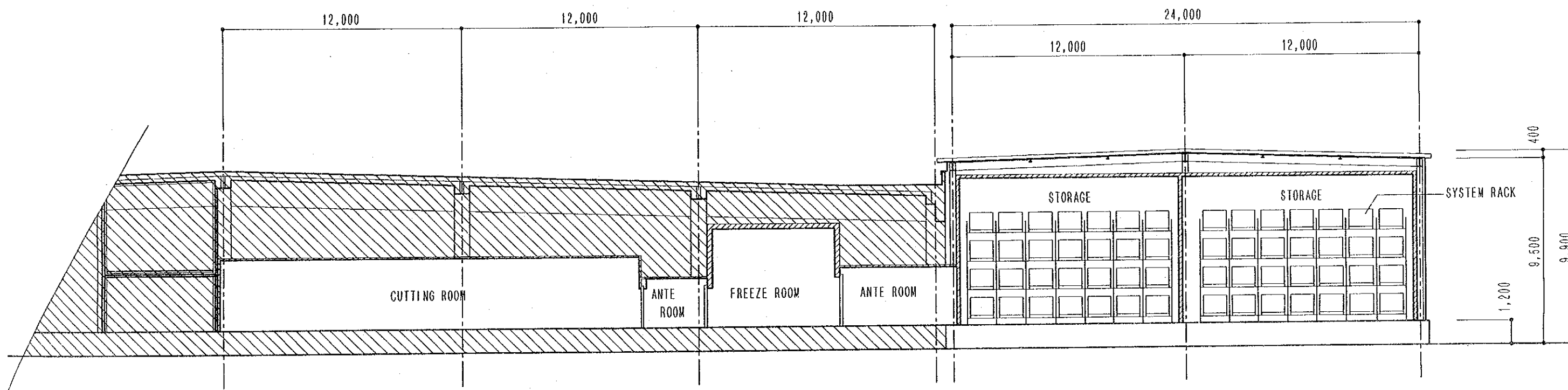
LOAD THE PALLET ONTO SYSTEM PALLETS OF RACK'S LINE
BY FORK LIFT

フォークリフトにて出荷用トラック（鉄道）にダンボールを積み替え

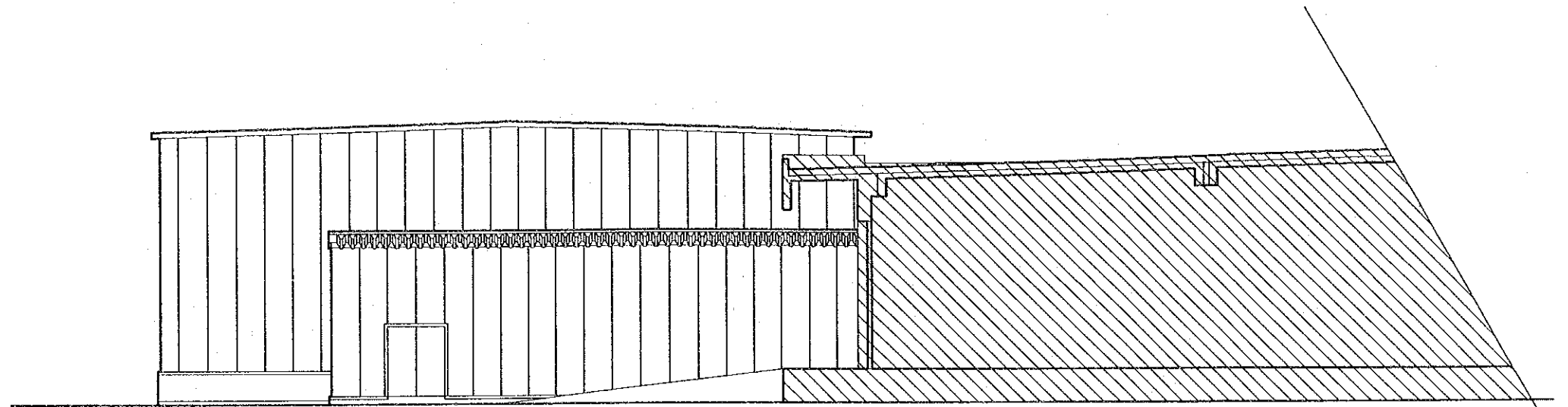
LOAD THE PACKED CUT-MEAT ONTO TRUCKS (OR THE RAILROAD)
BY FORK LIFT



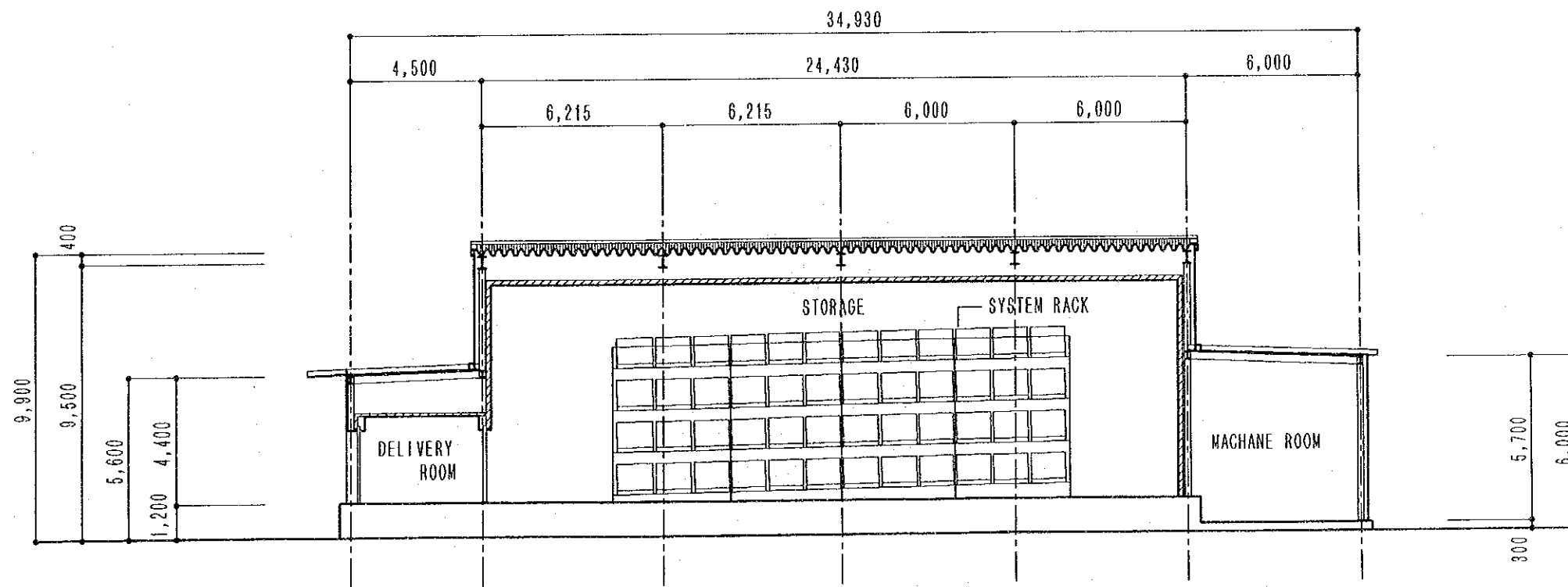
EXISTING BUILDING PLAN S = 1 : 600



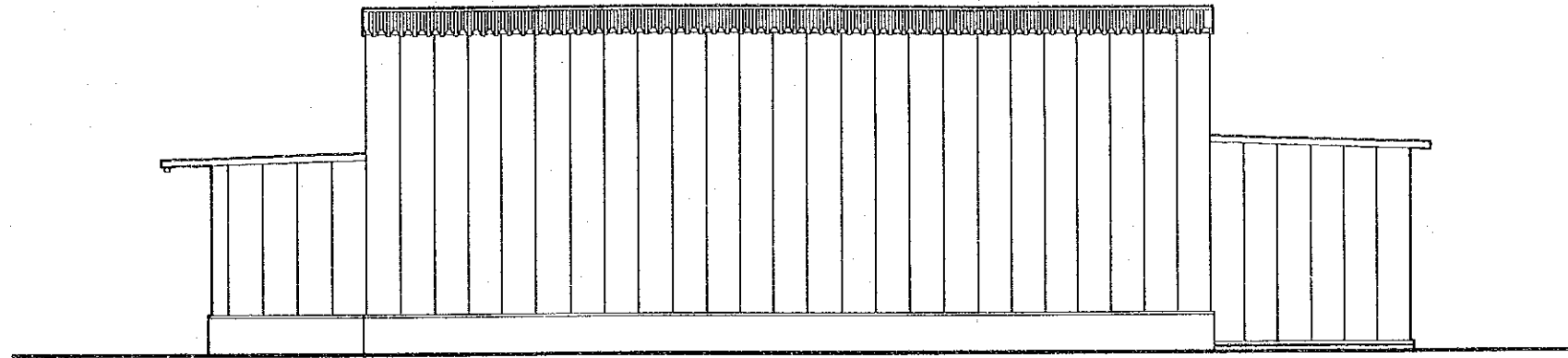
A-A SECTION S=1:200



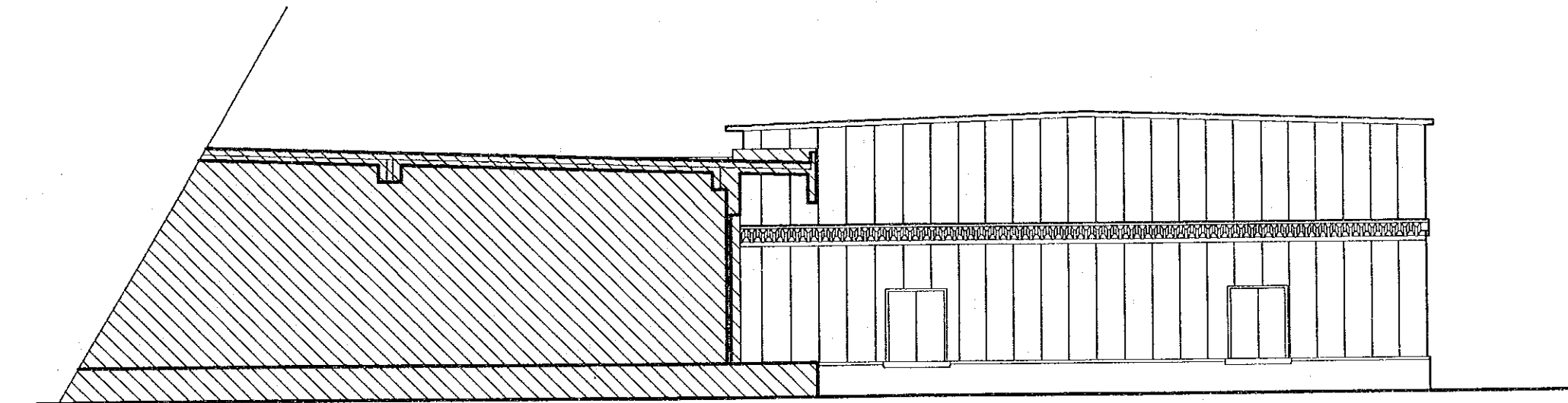
WEST ELEVATION S=1:200



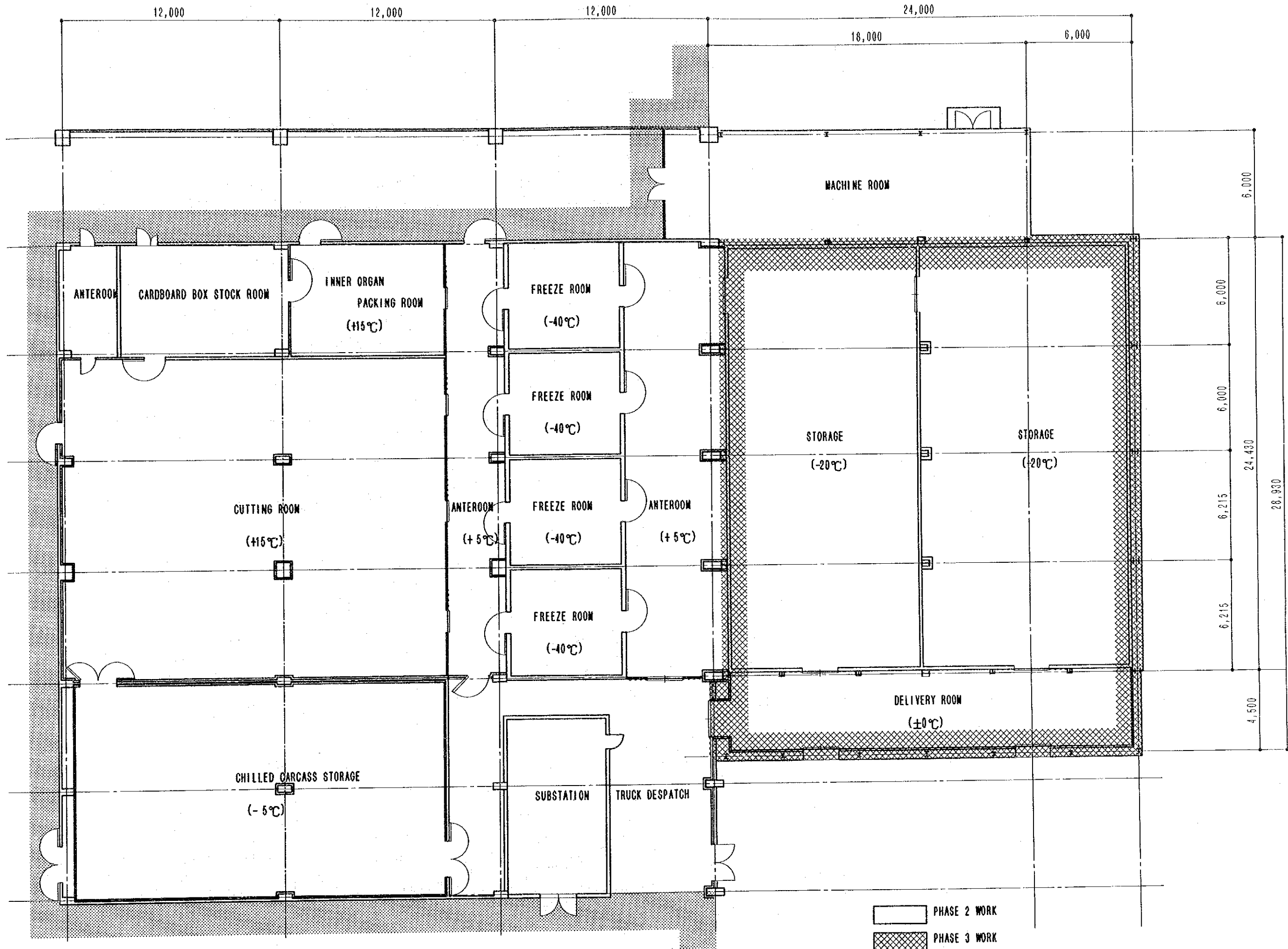
B-B SECTION S=1:200



NORTH ELEVATION S=1:200



EAST ELEVATION S=1:200



PLAN S-1:200

PHASE 2 WORK
 PHASE 3 WORK

資料編

資料編 1. 協議議事録

1. 基本設計調査
2. ドラフトファイナルレポート説明

MINUTES OF DISCUSSIONS

BASIC DESIGN STUDY ON THE PROJECT
FOR IMPROVEMENT
OF DARKHAN MEAT PLANT
IN MONGOLIA

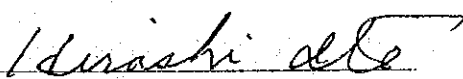
In response to request from the Government of Mongolia, the Government of Japan decided to conduct a Basic Design Study on the Project for Improvement of Darkhan meat plant (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (JICA).

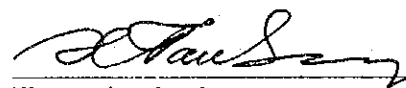
JICA sent to Mongolia a study team, which is headed by Mr. Hiroshi Ito, Director of the Ibaraki Station, National Livestock Breeding Center, Ministry of Agriculture, Forestry and Fisheries, and is scheduled to stay in the country from March 12 to April 7, 1993.

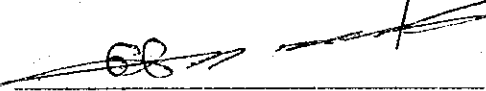
The team held discussions with the officials concerned of the Government of Mongolia conducted a field survey at the study area.

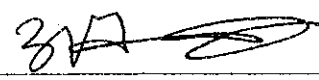
In the course of discussions and field survey, both parties have confirmed the main items described on the attached sheets. The team will proceed to further works and prepare the Basic Design Study report.


Ulan Bator, March 19, 1993


Hiroshi Ito
Leader
Basic Design Study Team
JICA


Khuyagin Ganbaatar
Deputy Minister
Ministry of Trade and Industry


Badrakhyn Alzakhgui
Director, Food Department
Ministry of Food and Agriculture


Zagdyn Lkhundev
General Director
Darkhan Meat Plant



ATTACHMENT

1. Objective

The objective of the Project is to stabilize the supply of meat to the urban people in Mongolia by improving and expanding the facilities of Darkhan meat plant.

2. Project sites

The Project site is located at Darkhan meat plant in Darkhan City which appears in Annex 1.

3. Responsible, administrative and executing organization

- (1) Responsible organization: Ministry of Trade and Industry
- (2) Administrative organization: Ministry of Food and Agriculture
- (3) Executing organization: Darkhan meat plant

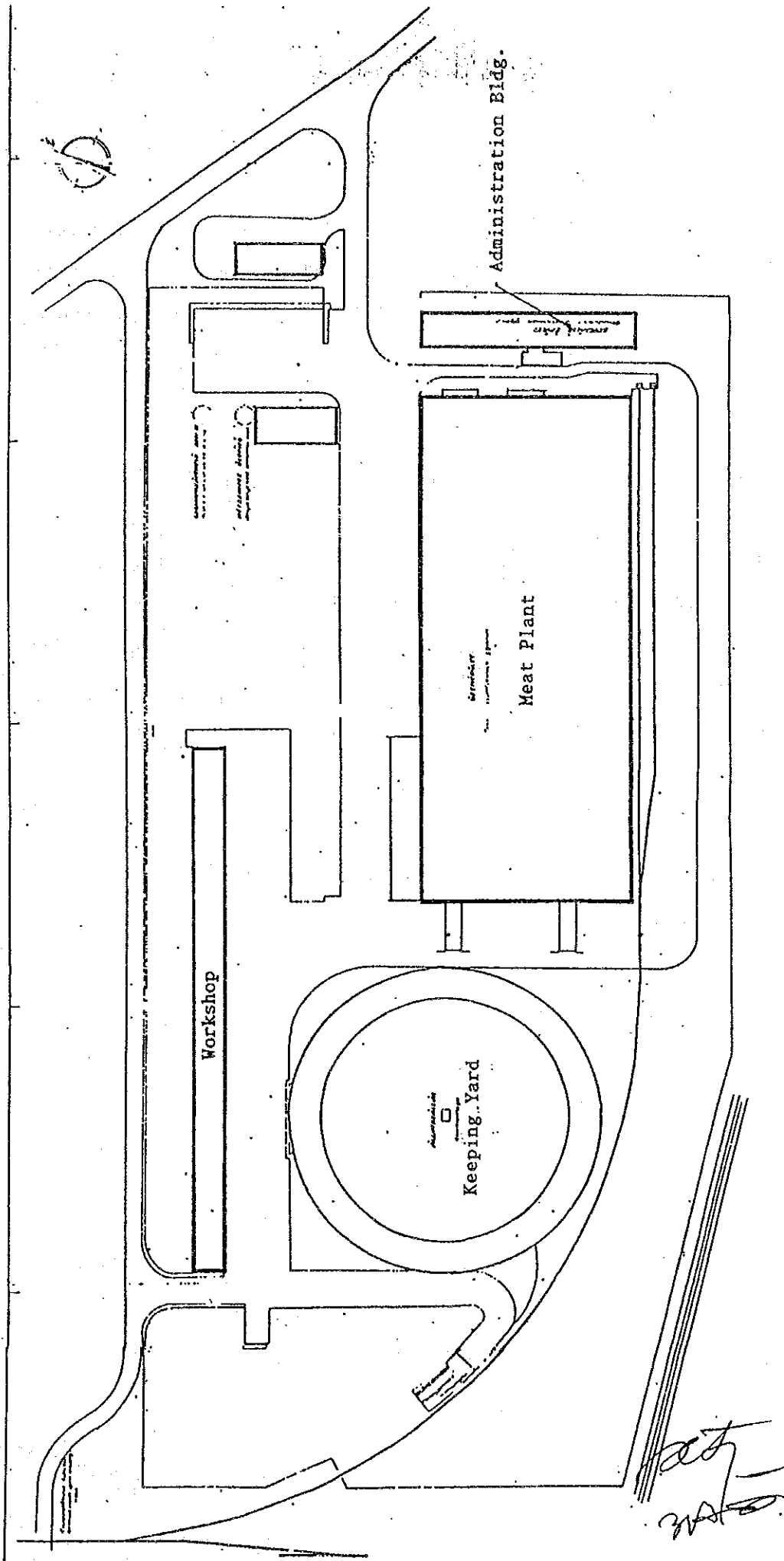
The organization chart is shown in Annex 2.

4. Items requested by the Government of Mongolia

After discussions with the Basic Design Study Team, the following items whose priority was in numerical order were finally requested by the Mongolian side.

- (1) Supply of pipes, accessories and technical guidance for the renewal of existing refrigeration system
- (2) Converting the meat processing room into meat-cutting room including supply of necessary equipments
- (3) Construction of rapid freezing facility for cattle cut-meat and internal organs.
- (4) Construction of frozen products storehouse

However, the final components of the Project will be decided after further studies.



Plot Plan of Darkhan Meat Plant S = 1 : 2,000

5. Japan's Grant Aid system

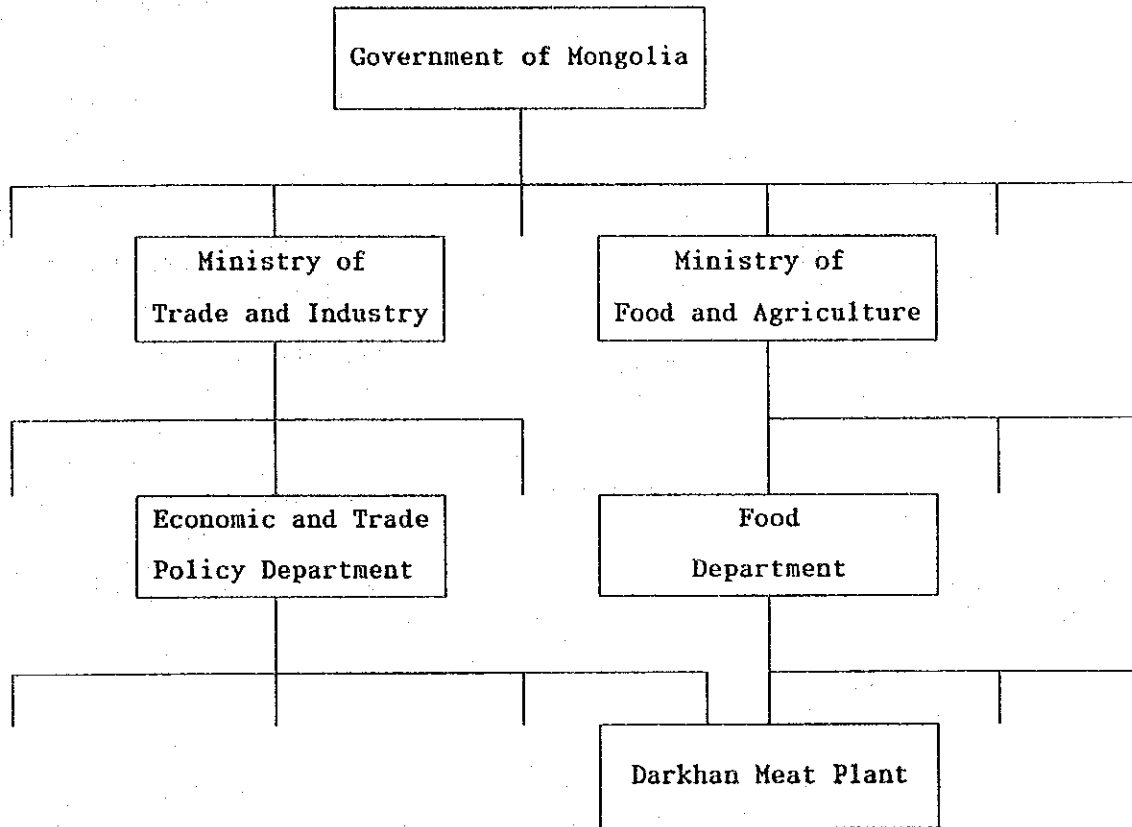
- (1) The Government of Mongolia has understood the system of Japanese Grant Aid explained by the team.
- (2) The Government of Mongolia will take necessary measures, described in Annex 3 for smooth implementation of the Project, on condition that the Grant Aid Assistance by the Government of Japan is extended to the Project.

6. Schedule of the Study

- (1) The consultants will proceed to further studies in Mongolia until April 7, 1993.
- (2) JICA will prepare the draft report in English and dispatch a mission in order to explain its contents in or around early in June, 1993.
- (3) In case that the contents of the report is accepted in principle by the Government of Mongolia, JICA will complete the final report and sent it to the Government of Mongolia by August, 1993.

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3/23/93 ldi

ANNEX 2. Organization Chart



[Handwritten signatures and initials]

ANNEX 3. Major Understandings to be taken by Mongolian Government

- | No. | Items |
|-----|--|
| 1. | To carry out all the work for the renewal of existing refrigeration system |
| 2. | To remove the existing meat-processing facility and related facility for converting into meat-cutting room |
| 3. | To secure site in Darkhan meat plant |
| 4. | To provide facilities for the distribution of electricity, water supply, drainage and incidental facilities when needed |
| | 1) Electricity (the distributing line to the site) |
| | 2) Water supply (-ditto-) |
| | 3) Hot-water supply (-ditto-) |
| | 4) Steam supply (-ditto-) |
| | 5) Drainage (discharging sewerage-pipe from the site) |
| | 6) Consumable material |
| 5. | To bear the following commissions to the Japanese foreign exchange bank for the banking services based upon the B/A |
| | 1) Advising commission of A/P |
| | 2) Payment commission |
| 6. | To ensure unloading and customs clearance at port disembarkation in recipient country (Tax exemption and custom clearance of the products for the project at the country) |
| 7. | 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 contracts |
| 8. | To extend such facilities as may be necessary for entry into Mongolia and stay therein for the performance work to the Japanese nationals whose services may be required in connection with the supply of products and the services under the verified contracts |
| 9. | To ensure prompt processing of required internal formalities to secure the implementation time schedule of the project |
| 10. | To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and the installation of the equipment |
| 11. | To maintain and use properly and effectively the facilities constructed and the equipment provided under the Grant |

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MINUTES OF DISCUSSION

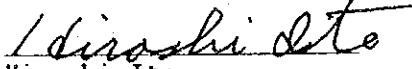
BASIC DESIGN STUDY ON THE PROJECT
FOR
IMPROVEMENT OF DARKHAN MEAT PLANT
IN MONGOLIA

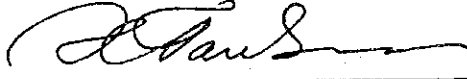
In March to April 1993, the Japan International Cooperation Agency (JICA) dispatched a Basic Design Study team on the project for Improvement of Darkhan Meat Plant (hereinafter referred to as "the Project") to Mongolia, and through discussions, field survey, and technical examination of the results in Japan, has prepared the draft report of the study.


In order to explain and to consult Mongolia on the components of the draft report, JICA sent to Mongolia a study team, which headed by Mr. Hiroshi Ito, Technical Director, National Livestock Breeding Center, Ministry of Agriculture, Forestry and Fisheries, and is scheduled to stay in the country from July 3 to 9, 1993.

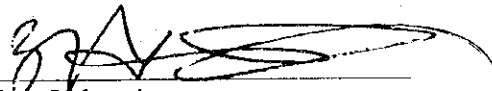
As the result of discussions, both parties confirmed the main items described on the attached sheets.

Ulanbator, July 8, 1993


Hiroshi Ito
Leader
Basic Design Study Team
JICA


Khuyagin Ganbaatar
Deputy Minister
Ministry of Trade and Industry


Badrakhyn Alzakhgui
Director, Food Department
Ministry of Food and Agriculture


Zagdyn Lkhundev
General Manager
Darkhan Meat Plant

ATTACHMENT

1. Components of Draft Report

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

3. Further schedule

The team will make the Final Report in accordance with the confirmed items, and send it to the Government of Mongolia by the end of August 1993.

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ANNEX: Necessary measures to be taken by the Government of Mongolia
in case Japan's Grant Aid is executed.

- | No. | Items |
|-----|--|
| 1. | To remove the existing meat-processing facility and related facility for converting into meat-cutting room |
| 2. | To secure site in Darkhan meat plant |
| 3. | To introduce intake wire (6kv) to the new sub-station which will be installed by the Project |
| 4. | To provide facilities for the distribution of electricity, water supply, drainage and incidental facilities when needed |
| | 1) Electricity (the distributing line to the Project area) |
| | 2) Water supply (-ditto-) |
| | 3) Hot-water supply (-ditto-) |
| | 4) Steam supply (-ditto-) |
| | 5) Drainage (discharging sewerage-pipe from the Project area) |
| | 6) Consumable material |
| 5. | To bear the following commissions to the Japanese foreign exchange bank for the banking services based upon the B/A |
| | 1) Advising commission of A/P |
| | 2) Payment commission |
| 6. | To ensure unloading and customs clearance at port disembarkation in recipient country (Tax exemption and custom clearance of the products for the project at the country) |
| 7. | 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 contracts |
| 8. | To extend such facilities as may be necessary for entry into Mongolia and stay therein for the performance work to the Japanese nationals whose services may be required in connection with the supply of products and the services under the verified contracts |
| 9. | To ensure prompt processing of required internal formalities to secure the implementation time schedule of the project |
| 10. | To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and the installation of the equipment |
| 11. | To maintain and use properly and effectively the facilities constructed and the equipment provided under the Grant |

資料編 2. 調査団名簿

調査団名簿

1. 基本設計調査

伊藤 亘	団 長 (総 括)	農林水産省 農林水産省家畜改良センター茨城牧場 牧場長
朝倉 譲	無償資金協力 計画管理	国際協力事業団 無償資金協力調査部 基本設計1課
内ヶ崎 秀次郎	建築設計/業務主任	株式会社全国農協設計
木村 健太郎	冷凍・冷蔵設備設計	株式会社 全国農協設計
坂理 祥一	電気設備設計	株式会社 全国農協設計
楢原 幹基	物流計画	株式会社 全国農協設計
小野 繁樹	通訳	株式会社 全国農協設計

2. ドラフトレポート説明

伊藤 亘	団 長 (総 括)	農林水産省 農林水産省家畜改良センター 技術部長
渡里 直広	無償資金協力 計画管理	外務省 経済協力局 無償資金協力課
内ヶ崎 秀次郎	建築設計/業務主任	株式会社全国農協設計
木村 健太郎	冷凍・冷蔵設備設計	株式会社 全国農協設計
楢原 幹基	物流計画	株式会社 全国農協設計
小野田 大介	通訳	株式会社 全国農協設計

資料編 3. 調査日程表

3. 調査日程表

1. 基本設計調査

No	日付	曜日	調査行動	No	日付	曜日	調査行動
1	3/11	木	移動：東京 → 北京(NH:905)	15	25	木	ダルハン食肉工場継続協議 建設事情調査
2	12	金	移動：北京 → ウラバートル(CA:901) 大使館、通産省表敬 (調査日程協議)	16	26	金	ダルハン製鉄所検察現場視察 ダルハン食肉工場株主総会傍聴
3	13	土	食糧農牧業省表敬・協議 モンゴル食糧会社(旧公社)協議 (民営化事実確認)	17	27	土	移動：ガルハ → ウラバートル(車両) 内部協議・資料整理
4	14	日	移動：ウラバートル → ガルハ(車両) ダルハン食肉工場場長表敬 ダルハン市内視察	18	28	日	内部協議 市場調査
5	15	月	ダルハン食肉工場視察 現状調査	19	29	月	通産省報告・協議(計画内容関連) 食糧農牧業省協議(質疑事項関連)
6	16	火	ダルハン食肉工場協議 要請内容確認	20	30	火	通産省協議(質疑事項関連) 建設都市整備省協議(建設事情)
7	17	水	要請内容検討 移動：ガルハ → ウラバートル(車両)	21	31	水	内部協議 建設事情調査
8	18	木	通産省・ダルハン食肉工場協議 (ミニッツ協議)	22	4/1	木	食糧農牧業省協議(食肉事情調査) 建設都市整備省協議(許認可関連)
9	19	金	ミニッツ署名 大使館報告	23	2	金	通産省協議(国家開発経済事情関連) 建設事情調査・調査事項整理
10	20	土	伊藤団長・朝倉団員 帰国： ウラバートル → 北京 (OM:223) 内部協議	24	3	土	食糧農牧業省協議(農業事情調査) ダルハン食肉工場質疑回答受領
11	21	日	(移動：北京 → 東京 (NH:906)) 内部協議・資料整理	25	4	日	質疑回答解析 資料整理
12	22	月	移動：ウラバートル → ガルハ(車両) ダルハン食肉工場協議	26	5	月	食糧農牧業省協議(質疑回答確認) 通産省報告
13	23	火	ダルハン食肉工場現況調査 質疑事項・計画内容協議	27	6	火	資料整理 大使館報告
14	24	水	ダルハン食肉工場継続協議 建設事情調査	28	7	水	移動：ウラバートル → 北京(OM:223) 北京 輸送事情調査
				29	8	木	帰国：北京 → 東京 (NH:906)

2. ドラフトファイナルレポート説明

No	月日	曜	調査行動
1	7/ 2	金	東京発 (NH905) 10:20 ⇒ 北京着 13:50 (渡里団員; 7/1発、7/2 ウランバートル着)
2	3	土	北京発 (OM224) 13:30 ⇒ ウランバートル着 16:30
3	4	日	団内協議
4	5	月	通産省・外務省・食糧農牧業省・国家民営化委員会等協議 (民営化に係る協議・ドラフトレポート概要説明)
5	6	火	移動: ウランバートル ⇒ ダルハン ダルハン食肉工場協議 (ドラフトレポート内容説明)
6	7	水	ダルハン食肉工場協議 移動: ダルハン ⇒ ウランバートル
7	8	木	ミニッツ協議 ミニッツ署名
8	9	金	大使館報告 帰国: ウランバートル発 (CA902) 18:20 ⇒ 北京着 21:30
9	10	土	北京発 (NH906) 15:15 ⇒ 東京着 20:15

資料編 4. 主な面会者リスト

4. 主な面会者リスト

NAME	POSITION HOLD	
<u>MONGOLIAN MINISTRY OF TRADE AND INDUSTRY</u>		通産省
Mr. Tsedengiin Yondon	First deputy Minister	大臣代理
Mr. Khuyagin Gangbbtar	Vice minister	副大臣
Mrs. Lodoiidambyn Nasanbuyan	Assistant of Director	商業経済政策局長補佐
Mr. Dambin Ganbold	Deputy Director, Department of industrial policy	産業政策部 部長代理
Mr. Alexein Dorjpalam	Division of small and medium enterprise policy, Head	中小企業政策課 課長
<u>MINISTRY OF FOOD AND AGRICULTURE</u>		食糧農牧業省
Mr. Badrehin Alzahgui	Director, Food Department	食糧局長
Mrs. B. Jargalsaikhan	Officer, Food Department	食糧局 専門家
Mr. R. Doljinsuren	Officer, Food Department	食糧局 専門家
Mrs. Rentsensonomyn Durima	Officer, Foreign Relations Department	対外部 専門家
Mr. Norovin Baysgalan	Director, Livestock Department	牧畜業局長
<u>MINISTRY OF CONSTRUCTION AND URBAN DEVELOPMENT</u>		建設都市整備省
Mr. Lamjav Shagdarragchaа	First deputy minister	大臣次官
Mr. Nyamjav Zaankhuu	Senior engineer	上級技術者
Mr. J. Bayasgalan	Officer, Department of economy and building policy	経済・建築法規部門 専門家
<u>NATIONAL DEVELOPMENT BOARD UNDER THE PRIME MINISTER OF MONGOLIA</u>		総理大臣配下国立開発庁
Mr. Khorloogin Baatar	General Director, Department of Macro Economic Policy	経済政策局 局長
<u>MONGOLIAN "FOOD INDUSTRY" CORPORATION (PRODUCTION AND TRADING)</u>		食糧会社
Dr. G. Lkhagvaa	General Director	社長
<u>KHISHIG COMPANU</u>		ダルハン市食肉工場
Mr. Zagdyn Lkhundev	General Director	社長
Mr. Gochoogiin Amar	Chief Engineer	技師長
<u>MAKHIMPEX COMPANY</u>		ウランバートル食肉工場
Dr. Sanjmyatavyn Deleg	Managing Director	専務取締役
<u>MONAR CO. LTD</u>		モナル設計事務所
Mr. Maidar Orgil	General Director	社長

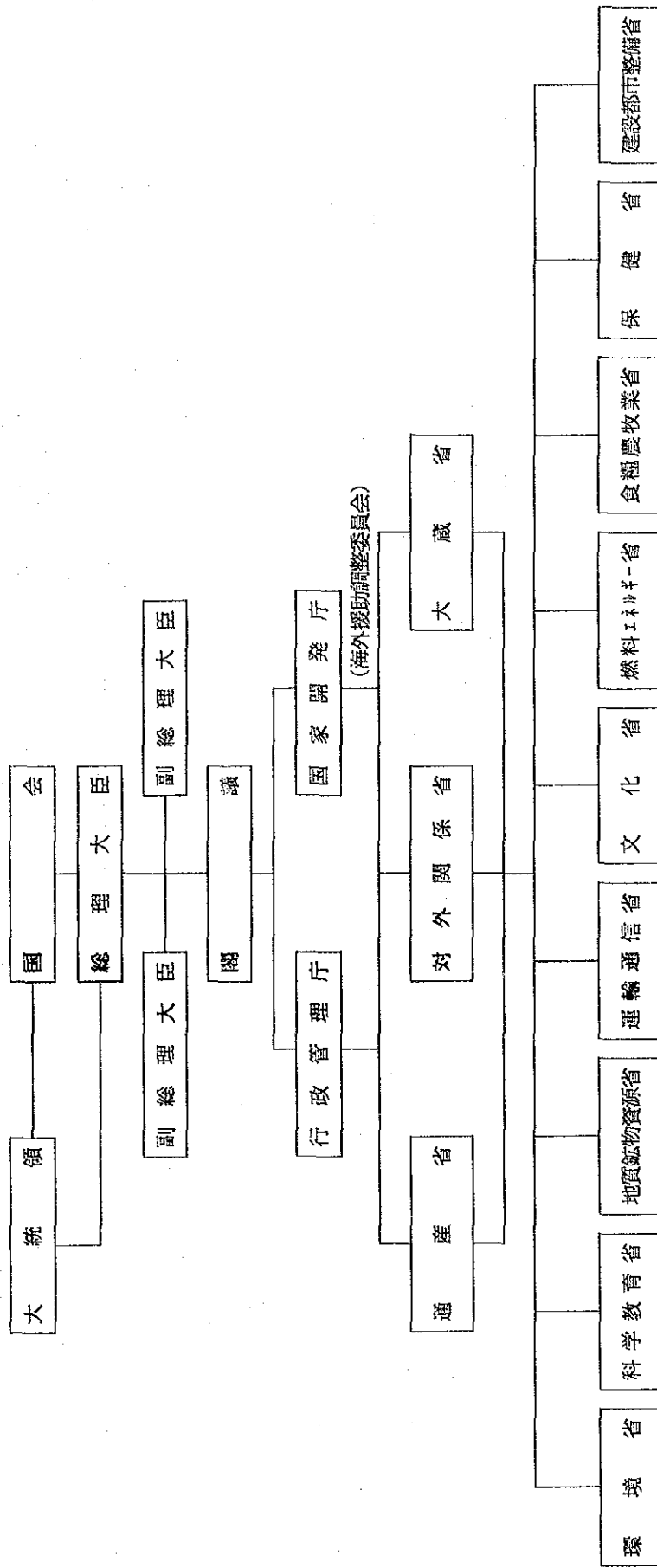
NAME	POSITION HOLD	
<u>SOVINVEST</u>		
Mr. Mikhail Grigorievich Stadnik	Chief Engineer	ソビンベスト建設会社 支店長
Mr. Syubitysuki	Director	部長
Mr. Mihinibitti	Engineer	担当エンジニア
<u>ULAN BATOR CONSTRUCTION COMPANY</u>		
Mr. Dartocing	Deputy General Director	ウランバートル建設会社 副社長
<u>DARUHAN CONSTRUCTION COMPANY</u>		
Mr. Zorikuto Bator	Deputy General Director	ダルハン建設会社 副社長
Mr. R. Amap	Chife Engineer	技師長
Mr. B. Bonabaatop	Chife of Quality Control	品質管理主任
Mr. D. Ypgyhyconhro	Chife of accounting section	経理主任
Mr. S. Sapahrypyn	Engineer	技師
<u>MATERIALIMPEX</u>		
Mr. Batin Buriad	Duputy Director	マテリアルマペクス (調達会社) 副取締役
<u>GURUHAN</u>		
Mr. Zondoin Muhubatto	General Director	グルハン(調達会社) 社長
<u>URGOO</u>		
Mr. O. Kishigsikh	General Director	ウルゴ(調達会社) 社長
<u>INTERNATIONAL FREIGHT FORWARDER, MONGOLTRANS CO, LTD</u>		
Mr. N. Tserrmorov	General Director	輸送会社 社長
Mr. D. Jigjidnyam	Manager	支配人
<u>MONGOL DAATGAL, NATIONAL INSURANCE AND REINSURANCE COMPANY</u>		
Mr. Tsultemyn Tsend	General Director	国営保険会社 社長
<u>モンゴル日本国大使館</u>		
末澤 昌二 氏	特命全権大使(3月末まで)	
蓮見 義博 氏	特命全権大使	
富永 文朗 氏	参事官	
松本 節子 氏	書記官	
<u>青年海外協力隊 調整員事務所</u>		
松木 博之 氏	所長	
大野 龍男 氏	調整員	

資料編 5. 付属資料

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- 付属資料-2 人口・人口密度統計
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- 付属資料-4 消費者物価指数
- 付属資料-5 失業率統計
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モンゴル国政府組織図



※本組織図は1993年3月現在のもの

人 口 (1,000人)

年	総人口	都市人口	ウランバートル	ダルハツ	エルデネット	地方人口	人口密度
1985	1,900.6	1,016.8	503.3	73.1	52.1	883.8	0.47人/km ²
1986	1,949.7	1,052.8	520.4	78.1	53.4	896.9	0.49
1987	1,997.0	1,098.4	535.5	83.1	54.5	898.6	0.62
1988	2,044.0	1,166.1	548.4	85.7	56.1	877.9	1.80
1989	2,095.6	1,193.6	560.6	87.4	57.1	902.0	1.07
1990	2,149.3	1,225.1	575.0	88.6	58.2	924.2	1.37
1991	2,187.2	1,235.6	578.9	88.3	57.1	951.6	1.40

出典：モンゴル国統計事務所

モンゴル国 歳入歳出

百万ツブルグ

項目	1991 年 (施行済)	1992 年 (施行中)	1993 年 (予算)
1. 歳入合計	6,065.1	11,697.4	38,407.2
税収入	5,053.1	9,839.4	30,023.8
報酬収入	71.1	93.7	564.0
代金収入	22.1	10.1	40.0
税外収入	886.3	1,139.0	2,889.4
对外援助	32.5	615.2	4,890.0
2. 歳出合計	8,917.8	11,697.4	37,134.2
人件費	2,007.4	3,103.5	7,453.8
物品購入費	2,545.1	4,193.8	16,478.5
準備金その他	785.8	725.3	4,303.6
補助金	1,181.1	637.1	604.9
社会保障費	1,379.8	1,769.0	4,640.4
雑費	0.0	132.9	120.0
投資金	1,018.6	1,053.8	3,533.0
3. 政府信託基金			
歳入	2,570.8	3,206.5	7,141.8
歳出	2,406.4	3,206.5	7,135.6
社会保障			
歳入	2,221.8	2,329.6	5,915.1
歳出	2,166.8	2,392.6	5,915.1
輸送整備基金			
歳入	165.5	564.0	1,200.5
歳出	181.9	564.0	1,200.5
私企業化基金			
歳入	183.5	294.9	26.2
歳出	57.7	294.9	20.0
4. 負債額	-2,688.3	207.5	1,279.2
5. 財政融資	2,618.6	2,485.2	-1,273.0
6. 国内総生産	18,909.6	24,606.7	96,776.3

Note ; Simplified budget table.

Source ; Ministry of Finance , Mongolia.

消費者物価指数

(C P I) 1992年 11月

年月日	1991年1月6日 を100とする	1992年1月1日 を100とする	月別上昇率 %/月
1991.01.06	100		
1991.10.01	134.9		2.9
1991.12.01	116.3		5.1
1992.01.01	154.3	100	5.4
1992.04.01	230.8	149.6	32.9
1992.07.01	340.1	220.4	24.0
1992.10.01	409.7	265.5	8.6
1992.11.01	531.5	348.0	29.7
1992.12.01	585.2	383.2	10.1

Source ; Market Reseach Institute Mongolia

失業率

(1,000人)

	1989	1990	1991	'92.7月	'92.12月末
労働者総人口	879.4	927.9	976.4	1,000	1,000
失業者総人口	10.3	24.8	55.4	54.8	54.8
失業率	1.2	2.7	5.7	5.5	5.4

Source ; Market Reseach Institute, Mongolia

主要工業製品生産実績

製品名	単位	1991年	1992年	1992/1991
発電量	mln KW/H	2,549.7	2,406.7	94.4%
熱エネルギー	1,000 Gkal	8,054.0	7,977.4	99.0
石炭	1,000 T	7,036.8	5,977.5	84.9
銅精製	1,000 T	257.4	300.2	116.6
モリブデン精製	T	3,718.0	3,500.0	94.1
カーペット	1,000 M ²	1,400.0	1,037.0	74.1
ニット製品	1,000 枚	2,808.7	1,411.7	50.3
カシミア原料	1,000 T	190.0	97.6	51.2
カシミア繊維	1,000 T	57.7	29.6	50.6
羊毛	T	7,197.1	7,057.3	98.1
革コート	1,000 枚	29.9	40.1	134.1
革ジャケット	1,000 枚	194.2	141.1	72.7
シープスキンコート	1,000 枚	111.5	99.4	89.1
小麦	1,000 T	174.4	181.9	104.3
食肉	1,000 T	46,873.8	24,661.2	52.6
パン	1,000 T	60,574.8	60,860.2	100.5
牛乳/乳製品	mln L	50.6	27.7	54.7
ウォッカ	1,000 L	6,769.2	6,686.6	98.8

Source ; Market Reseach Institute , Mongolia

主要農産物生産高

製品名	1991	1992	差	1992/1991
総家畜数 (1,000 頭)	25,528	25,659	131	100.5%
ラクダ	476	414	-61	87.2
馬	2,259	2,197	-62	97.3
牛	2,822	2,814	-8	99.7
羊	14,721	14,634	-86	99.4
ヤギ	5,249	5,598	348	106.6
残存 幼獣 (1,000 頭)	9,582	8,751	-831	91.3
輸出家畜 (1,000 生体 ton)	20.1	7.1	-13.0	35.3
バター (ton)	3,090.1	1,316.7	-1,773.4	42.6
ウール (ton)	25.4	17.6	-7.8	69.3
農産物収穫量 (1,000ton)				
小麦	* 786.1	493.9	-292.2	62.8
ポテト	* 134.0	78.5	-55.5	58.6
野菜	* 50.4	16.4	-34.0	32.5
単位当たりの収穫量 (平均:ト/ヘクタール)				
小麦	9.7	8.3	-1.4	85.6
ポテト	96.6	90.0	-6.6	93.2
野菜	n.a	n.a	n.a	

Note ; * indicate the average of previous five years

Source ; Market Reseach institute , Mongolia

食糧穀物供給バランス 1992/1993

1,000ton

	*小麦	米	合計
A. 国内供給			
生産量	491	0	491
政府公式貯蔵量	15	0	15
個人貯蔵量	0	0	0
合計国内供給能力	506	0	506
B. 使用区分け			
食料	350	15	365
種子 飼料 廃棄	245	0	245
輸出	0	0	0
政府年度繰り越し 1992. 9. 30現在	30	0	30
総使用量	625	15	640
C. 必要輸入量 (A - B)	119	15	134
予想 商品輸入量			
政府	66	5	71
個人	20	0	20
食料援助	7	0	7
未確認 輸入分	26	10	36

* 40,000トンの大麦その他の穀物を含む。

Source ; WFP / FAO mission report Special Alert No. 234

特定食料製品の価格動向

1992 年 四半期平均価格: tugrug

商品名	2 nd quarter		3. rd quarter		4 th quarter	
	A	B	A	B	A	B
マトン (/kg)	35	55	127	95	120	130
ミルク (/L)	17	16	19	19	63	70
バター (/kg)	198	250	260	258	357	350
小麦粉 (G-1)	19	-	33	-	58	-
パン "Atar" (個)	10	10	25	-	-	-
米 (/kg)	-	-	155	-	157	147
ポテト (/kg)	8	37	19	20	22	24
キャベツ (/kg)	-	-	42	-	70	-
タマネギ (/kg)	40	67	80	78	88	95
砂糖 (/kg)	137	142	133	139	117	115
卵 (/個)	7	8	7	7	9	9
ヒマワリ油 (/L)	163	263	500	383	467	530
ロシア茶 (/個)	488	489	595	667	717	683

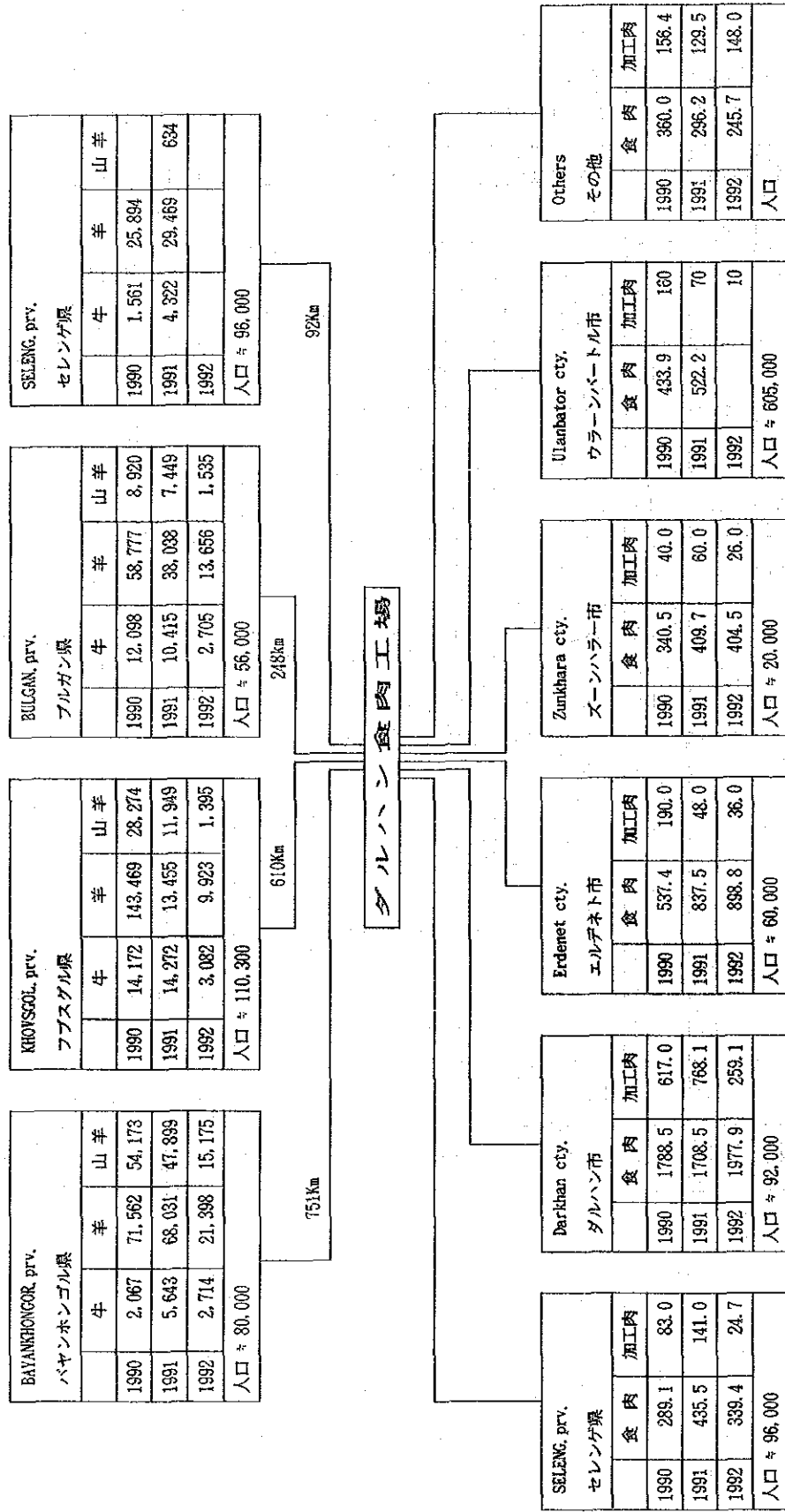
A ; 協定価格 B ; 開価格

Source ; Market Reseach institute , Mongolia

ダルハン气象台 過去5年間の気象データ

年 月	1988			1989			1990			1991			1992		
	雨量	積雪	風速	雨量	積雪	風速	雨量	積雪	風速	雨量	積雪	風速	雨量	積雪	風速
	m/m	c/m	m/sec	m/m	c/m	m/sec	m/m	c/m	m/sec	m/m	c/m	m/sec	m/m	c/m	m/sec
1		4.0	0.8		4.6	0.2		4.4	0.7		1.4	0.3		4.7	0.2
2		7.8	1.2		0.7	0.8		5.4	0.8		2.1	1.4		1.1	0.8
3		0.4	1.9		2.5	2.2		2.4	1.8		4.5	2.0		0.2	1.6
4	0.7	12.8	3.4			3.2			3.2			3.7	0.1	7.8	3.6
5	45.0	19.7	3.0			3.2			3.2			3.0	19.9		2.1
6	60.4		1.8	26.0		3.0	74.2		2.7	52.9		2.0	30.3		1.9
7	61.4		1.2	44.7		2.5	171.5		1.5	152.1		1.3	62.7		
8	59.6		1.7	58.8		2.1	90.7		1.2	85.0		1.5	84.1		
9			1.6			2.0			1.7			1.2	47.4		
10			1.7			2.0			1.9			1.8		5.6	
11		3.4	0.8		5.0	0.7		2.7	1.9		7.7	1.0		5.4	
12		4.1	0.4		3.2	0.4		8.2	0.7		2.8	0.5		5.0	
合計	227.1	52.2	19.5	129.5	16.0	22.3	336.4	23.1	21.3	290.0	18.5	19.7	244.5	29.8	
平均	18.9	4.4	1.6	10.8	1.3	1.9	28.0	1.9	1.8	24.2	1.5	1.6	20.4	2.5	

ダルハン食肉工場 原料調達・製品出荷表



農業統計資料

Table-1 GRAIN PRODUCTION IN 1989-1992 '000 Metric tonnes

Years	Wheat	Barley	Oats	Rye	Others	Total
1989	684.5	108.1	37.5	3.5	1.9	835.5
1990	593.6	88.8	30.0	2.4	0.6	716.0
1991	539.1	47.9	7.2	1.4	0.6	596.2
1992	450.0	34.1	5.0	1.0	-	490.6

Table-2 POTATOES AND VEGETABLES PRODUCTION IN 1989-1992 '000 Metric tonnes

Year	Potatoes	Vegetables
1989	148.0	54.9
1990	124.3	38.2
1991	95.1	22.4
1992	76.9	14.6

Note : Harvest for 1992 has preliminary been estimated.

Table-3 AREAS AFFECTED BY EARLY FROST IN 4-5TH JUNE OF 1992
/in '000 hectares/

AIMAGS	GRAIN	POTATOES	FRUIT & VEGETABLES
Tuv	14.3	0.04	0.07
Selenge	5.0	0.6	0.02
Bayanhongor	-	0.02	0.007
Hovd	0.08	0.03	0.003
TOTAL	19.38	0.69	0.1

(conplaye damage)

Source : Ministry of Food and Agriculture

Table-4 PRELIMINARY BALANCE FOR MAIN FOODCROPS FOR 1993

/in '000 metric tonnes/

1993-1-18

	Grain	Wheat	Potatoes	Vegetables
TOTAL HARVEST	490, 5	450, 0	75, 2	11, 9
Waste	48, 3	43, 7	5, 1	—
Net	442, 2	406, 8	70, 1	11, 9
For seed	114, 6	104, 6	23, 5	0, 06
Own consup	34, 0	28, 0	7, 7	3, 6
Sold to State	261, 1	252, 8	38, 8	8, 9
Flour mills	216, 4	216, 4	—	—
Feed mills	16, 3	12, 4	—	—
Spirit & beverage	6, 3	9, 3	—	—
State seed Reserve	2, 6	2, 2	—	—
Pigs & Poultry	4, 1	4, 0	—	—
Plant Protection	0, 6	0, 1	—	—
For market	32, 5	21, 4	—	—
Others	11, 8	9, 2	—	—

Table-5 Fertilizer Use Mongolla, 1983-1992

'000 Metric tonnes

	1985	1986	1987	1988	1989	1990	1991	1992
Ammonium Nitrate	30.0	29.0	32.4	35.0	48.0	45.0	0	5.0
Superphosphate	40.0	39.7	40.0	49.0	35.2	35.0	0	4.0
Potassium Chloride	5.0	8.3	10.0	10.0	7.6	7.3	0	1.0
Total	75.0	76.9	82.4	94.0	90.8	87.3	0	10.0

Table-6 SEED:PRESENT STOCK AND DEMAND FOR NEXT SOWING

CROPS		PRESENT STOCK	DEMAND FOR 1993
Wheat	'000 tn	93.2	97.1
Barley	--	9.4	9.9
Oats	--	1.5	1.5
Rye	--	0.1	0.2
TOTAL GRAIN	--	110.0	118.3
Potatoes	--	21.3	25.2
Cabbage	kg	794.0	500.0
Onions	--	1033.0	1000.0
Beet	--	250.0	950.0
Carrot	--	3458.8	3000.0
Garlicc	tn	20.0	--
Watermelon	kg	653.0	698.0

Table-7 FERTILIZER AND AGRICULTURAL CHEMICALS

/tonnes/

Fertilizer and chemicals	Present stock	Demand for 1993
Fertilizer total		40,000
Ammonium nitrate	--	25,000
Superphosphate	--	10,000
Potassium Chloride	--	5,000
Herbicide /2.4D/	19	500
Insecticide	4	4
Zoocide /Redintin/	--	10
Pesticide /Granozol/	10	100

Source : Ministry of Food and Agriculture State Seed Service

Table-8 FLOUR PRODUCTION

' 000 Tonnes

Flour mills	1989	1990	1991	1992
1. Ulaanbaatar	47.5	47.3	45.9	47.2
2. Sukhbaatar	42.5	32.5	30.8	34.6
3. Harkhorin	14.1	13.5	16.2	14.9
4. Bulgan	10.7	11.0	11.6	12.4
5. Ulaangom	10.2	10.1	10.0	10.0
6. Murun	10.2	10.5	10.5	11.6
7. Dornod	8.4	9.1	9.3	10.1
8. Underkhan	8.2	9.1	9.9	11.8
9. Darkhan	48.0	43.7	30.1	29.3
TOTAL	199.9	187.1	174.5	181.9

Table-9 PRODUCING AND STORAGE CAPACITIES FOR FLOUR MILLS

' 000 Tonnes

Flour mills	Producing capacity	Storage capacity
Ulaanbaatar	42.0	64.0
Sukhbaatar	41.0	82.0
Harkhbaatar	16.0	12.0
Bulgan	11.5	38.7
Ulaangom	9.0	4.0
Dornod	9.0	7.0
Muren	9.0	6.5
Underkhan	9.0	4.0
Darkhan	44.0	82.0
Baruunharaa & Hutul		48.0
TOTAL	190.5	348.2

畜産統計資料

Table 1 Total livestock numbers (1000's) by Aimag for 1987-1992

AIMAG	1987	1988	1989	1990	1991	1992
ARHANGAI	1243.1	1296.6	1382.2	1496.2	1504.0	1495.9
BAYAN-ULGII	1241.2	1235.4	1284.0	1318.4	1159.9	1033.9
BAYANHONGOR	1453.8	1339.6	1475.4	1559.1	1674.5	1761.9
BULGAN	846.6	889.4	943.0	998.2	1021.2	1066.1
GOVI-ALTAI	1543.8	1561.6	1636.6	1693.6	1696.6	1770.8
DORNOGOVI	877.9	892.2	962.4	943.5	890.9	870.9
DORNOD	887.6	897.2	923.7	936.6	888.9	769.5
DUNDGOVI	1233.9	1226.4	1406.7	1505.5	1571.7	1591.1
ZAVHAN	1804.2	1834.6	1987.3	2133.4	2079.9	2805.0
UVURHANGAI	1749.3	1777.6	1937.6	2061.6	2022.3	2045.4
UMNUGOVI	871.3	895.7	953.1	910.	927.9	900.0
SUKHABAATAR	916.6	959.2	996.8	1004.7	1035.8	1098.7
SELENGE	429.4	448.5	477.7	512.5	500.0	459.3
TUV	1408.6	1457.2	1589.3	1711.4	1653.5	1687.9
UVS	1515.7	1561.6	1614.1	1666.6	1585.3	1596.5
HOVD	1554.2	1608.1	1637.4	1687.3	1636.6	1688.6
HUVSUGUL	1718.3	1740.1	1802.9	1871.9	1788.3	1747.6
HENTII	1262.5	1297.3	1423.3	1498.6	1380.4	1350.7
DARHAN	59.2	68.0	80.3	109.2	137.3	145.5
ULAANBAATAR	93.7	99.6	118.3	143.6	206.3	275.1
ERDENET	30.1	36.3	43.1	53.5	73.0	92.1
CHOIR	-	-	-	-	93.8	100.0
TOTALS	22741.0	23122.2	24674.9	25856.9	25527.9	25659.5

Source: Ministry of Agriculture

Table 2 Number of camels (1000's) by Aimag for the years 1987-1992

AIMAG	1987	1988	1989	1990	1991	1992
ARHANGAI	2.2	2.2	2.3	2.3	1.7	1.2
BAYAN-ULGII	10.6	10.5	10.4	10.4	8.9	7.6
BAYANHONGOR	48.3	46.8	46.2	45.4	41.8	37.7
BULGAN	4.1	4.2	4.3	4.4	3.7	3.1
GOVI-ALTAI	52.2	52.9	53.3	52.1	47.6	43.0
DORNOGOVI	65.6	68.0	67.5	60.7	52.5	46.5
DORNOD	14.2	14.4	14.4	13.3	11.8	9.8
DUNDGOVI	53.0	54.0	55.9	53.7	48.1	41.1
ZAVHAN	14.8	15.2	15.4	15.3	12.6	11.6
UVURHANGAI	30.6	30.7	31.7	31.4	27.7	21.6
UMNUGOVI	130.1	131.7	133.7	127.9	115.8	102.1
SUKHABAATAR	16.9	16.6	16.3	15.9	13.8	12.7
SELENGE	0.2	0.2	0.2	0.3	0.3	0.3
TUV	9.4	9.4	9.7	9.5	6.9	5.6
UVS	41.0	41.7	41.8	40.4	34.9	28.7
HOVD	37.5	38.1	37.7	37.2	32.3	28.4
HUVSUGUL	6.8	6.9	7.1	7.1	6.3	5.6
HENTII	9.1	9.5	9.8	9.9	8.8	7.8
DARHAN	—	—	0.1	0.03	0	0
ULAANBAATAR	0.02	0	0	0.03	0	0.1
ERDENET	—	—	—	—	0	0
CHOIR	—	—	—	—	0.3	0.4
TOTALS	546.6	552.8	558.3	537.5	476.0	414.9

Source : Ministry of Agriculture

Table 3 Numbers of horses (1000' s) by Aimag for the Years 1987-1992

AIMAG	1987	1988	1989	1990	1991	1992
ARHANGAI	180.5	183.5	186.2	194.4	192.4	184.3
BAYAN-ULGII	80.8	81.4	83.4	83.1	73.6	66.3
BAYANHONGOR	180.7	95.8	99.4	103.9	103.8	103.4
BULGAN	180.0	114.2	120.2	122.4	124.8	128.7
GOVI-ALTAI	77.2	78.3	82.0	81.6	84.5	80.9
DORNOGOVI	82.7	82.6	85.8	82.9	77.9	78.0
DORNOD	85.7	87.9	90.9	92.0	93.0	92.3
DUNDGOVI	127.3	132.4	144.9	152.0	155.3	148.3
ZAVHAN	132.1	140.6	149.2	156.5	151.8	149.6
UVURHANGAI	166.1	174.6	185.7	196.3	196.1	180.8
UMNUGOVI	63.3	65.6	67.8	62.5	62.6	59.9
SUKHABAATAR	120.4	124.3	123.7	118.2	118.4	120.8
SELENGE	25.6	25.5	28.2	33.8	34.0	33.1
TUV	170.6	180.8	195.7	203.3	210.3	205.4
UVS	121.8	127.8	133.3	136.7	128.8	116.0
HOVD	93.2	97.6	101.5	104.2	98.5	93.6
HUVSUGUL	147.8	152.7	158.6	168.3	171.1	169.7
HENTII	137.2	138.4	141.6	142.5	139.1	137.9
DARHAN	4.8	5.4	6.3	7.8	9.6	10.3
ULAANBAATAR	10.9	11.0	11.9	15.3	22.1	25.5
ERDENET	2.3	2.6	3.1	4.3	5.3	6.6
CHOIR	—	—	—	—	6.2	6.4
TOTALS	2047.1	2102.9	2199.5	2262.0	2259.3	2191.8

Source : Ministry of Agriculture

Table 4 Numbers of cattle (1000's) by Aimag for the Years 1987-1992

AIMAG	1987	1988	1989	1990	1991	1992
ARHANGAI	259.1	259.5	272.8	294.9	289.5	283.0
BAYAN-ULGII	109.1	109.9	111.6	117.7	96.0	86.8
BAYANHONGOR	117.7	112.3	118.9	128.2	130.5	132.8
BULGAN	152.9	155.8	165.0	175.0	176.9	180.4
GOVI-ALTAI	75.1	77.2	81.4	79.7	79.3	76.4
DORNOGOVI	76.2	74.2	80.1	77.0	73.4	74.2
DORNOD	115.3	115.3	121.3	126.1	124.0	122.7
DUNDGOVI	79.7	79.7	87.1	93.8	96.9	94.9
ZAVHAN	165.8	167.4	179.6	195.8	195.5	194.2
UVURHANGAI	178.2	177.3	187.0	200.5	198.2	197.8
UMNUGOVI	22.4	23.8	25.3	24.6	25.0	23.9
SUKHABAATAR	126.0	122.6	129.3	132.3	135.2	144.4
SELENGE	81.7	84.8	92.9	99.2	99.2	91.5
TUV	174.9	176.1	191.9	205.7	199.8	197.8
UVS	144.8	150.6	156.4	162.3	154.1	148.4
HOVD	123.2	130.6	133.9	136.9	131.2	131.3
HUVSUGUL	286.0	288.8	300.9	322.8	327.8	332.4
HENTII	176.7	170.5	184.9	197.1	188.4	187.1
DARHAN	15.1	16.3	18.3	20.8	25.2	27.9
ULAANBAATAR	36.9	38.1	42.9	44.9	51.8	58.2
ERDENET	9.1	10.5	13.4	13.4	16.6	19.7
CHOIR	—	—	—	—	7.5	8.2
TOTALS	2525.9	2541.3	2692.7	2848.7	2822.0	2814.0

Source : Ministry of Agriculture

Table 5 Numbers of sheep (1000's) by Aimag for the Years 1987-1992

AIMAG	1987	1988	1989	1990	1991	1992
ARHANGAI	659.6	696.7	746.2	814.0	823.0	814.7
BAYAN-ULGII	735.5	741.0	770.3	797.3	704.3	605.1
BAYANHONGOR	713.0	651.0	703.4	773.0	798.2	829.4
BULGAN	494.3	526.4	554.2	594.1	608.2	634.1
GOVI-ALTAI	889.8	899.0	923.7	978.3	957.5	991.8
DORNOGOVI	488.0	488.1	525.9	538.2	486.6	467.8
DORNOD	631.2	638.3	652.9	661.2	617.5	525.1
DUNDGOVI	662.5	655.1	744.7	801.3	841.9	859.5
ZAVHAN	1195.2	1203.1	1303.9	1402.9	1367.3	1358.5
UVURHANGAI	1043.8	1050.2	1135.7	1219.9	1171.7	1190.2
UMNUGOVI	274.4	282.7	294.7	284.4	296.5	286.8
SUKHABAATAR	542.6	572.8	592.0	602.9	624.5	657.3
SELENGE	301.4	316.6	332.3	351.3	338.8	298.8
TUV	913.3	948.2	1025.8	1116.4	1061.7	1086.7
UVS	924.2	946.6	978.8	1020.2	969.3	991.8
HOVD	846.7	870.0	889.3	913.1	878.8	906.1
HUVSUGUL	1038.2	1036.5	1061.7	1093.2	1007.3	941.6
HENTII	789.9	823.9	901.8	950.2	865.8	824.1
DARHAN	36.2	42.7	50.8	72.8	89.8	90.3
ULAANBAATAR	36.6	40.2	50.9	65.8	104.1	141.8
ERDENET	17.3	21.6	26.3	32.6	45.4	56.5
CHOIR	—	—	—	—	67.8	70.7
TOTALS	13233.7	13450.7	14265.1	15082.9	14721.0	14634.7

Source : Ministry of Agriculture

Table 6 Numbers of goats (1000's) by Aimag for the Years 1987-1992

AIMAG	1987	1988	1989	1990	1991	1992
ARHANGAI	141.6	154.6	174.7	190.7	197.3	212.7
BAYAN-ULGII	305.1	292.6	308.3	309.9	277.0	268.1
BAYANHONGOR	466.1	433.7	507.3	548.6	600.3	658.6
BULGAN	87.3	88.9	99.3	102.3	107.6	119.8
GOVI-ALTAI	449.5	454.1	495.6	501.9	527.7	578.7
DORNOGOVI	165.4	179.4	203.1	184.7	200.5	204.4
DORNOD	41.2	41.4	44.2	44.0	42.6	46.6
DUNDGOVI	311.4	305.2	374.1	404.7	429.5	447.3
ZAVHAN	296.3	308.2	339.2	363.0	352.6	371.1
UVURHANGAI	330.6	344.7	497.5	413.5	428.5	455.0
UMNUGOVI	381.1	391.9	431.6	411.4	428.1	427.3
SUKHABAATAR	110.5	122.8	135.1	135.4	143.6	163.5
SELENGE	20.5	21.5	24.1	28.0	32.7	35.6
TUV	140.4	142.7	166.2	176.5	174.8	192.4
UVS	283.9	294.9	303.8	307.0	298.1	311.6
HOVD	453.6	471.8	475.3	496.2	495.9	529.2
HUVSUGUL	239.5	255.2	274.6	280.4	275.7	298.3
HENTII	149.8	155.0	185.2	199.1	178.3	193.8
DARHAN	3.1	3.7	4.8	7.8	12.7	17.0
ULAANBAATAR	9.3	10.3	12.9	17.5	28.3	43.5
ERDENET	1.4	1.7	2.2	3.2	5.7	9.3
CHOIR	—	—	—	—	11.9	14.3
TOTALS	4387.6	4474.3	4959.1	5125.7	5249.6	5598.1

Source : Ministry of Agriculture

Table 7 Numbers of Livestock in private sector by Aimag (1000' s).

AIMAG	1989		1990		1991		1992
	private livestock	% of total	private livestock	% of total	private livestock	% of total	% of total
ARHANGAI	451.8	32.7	565.4	37.8	927.8	61.7	88.1
BAYAN-ULGII	529.0	41.2	607.6	46.1	719.1	62.0	75.8
BAYANHONGOR	405.8	27.5	505.1	31.6	835.7	49.9	59.6
BULGAN	216.7	23.0	273.7	27.4	519.6	50.9	55.4
GOVI-ALTAI	451.7	27.6	525.8	31.0	855.1	50.4	64.6
DORNOGOVI	247.2	25.7	269.9	28.6	444.3	49.9	59.4
DORNOD	120.5	13.0	769.4	18.1	530.2	59.7	65.1
DUNDGOVI	356.9	25.4	438.6	29.1	789.9	50.3	68.2
ZAVHAN	544.5	27.4	676.4	31.7	1135.4	54.6	67.2
UVURHANGAI	683.1	35.3	801.4	38.9	1165.6	57.6	90.4
UMNUGOVI	261.7	27.5	303.8	33.3	608.7	65.6	82.7
SUKHABAATAR	253.0	25.4	286.8	28.5	584.2	56.4	69.3
SELENGE	91.4	19.1	123.1	24.0	252.7	50.5	53.4
TUV	410.0	25.8	512.3	29.9	863.3	52.2	63.8
UVS	481.4	29.8	550.1	33.0	879.5	55.5	66.1
HOVD	504.4	30.8	584.0	34.6	968.5	59.2	70.8
HUVSUGUL	492.4	27.3	605.8	32.4	1028.2	57.5	86.1
HENTII	248.8	17.5	308.8	20.6	626.3	45.4	60.3
DARHAN	25.0	31.1	38.0	34.7	69.0	50.2	60.8
ULAANBAATAR	58.2	49.2	77.5	54.0	135.8	65.8	68.3
ERDENET	13.1	30.5	19.3	36.1	37.5	51.4	59.3
CHOIR	—	—	—	—	26.2	27.9	35.8
TOTALS	6845.0	27.8	8242.9	31.9	14002.6	54.9	70.2

Source : Ministry of Agriculture

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