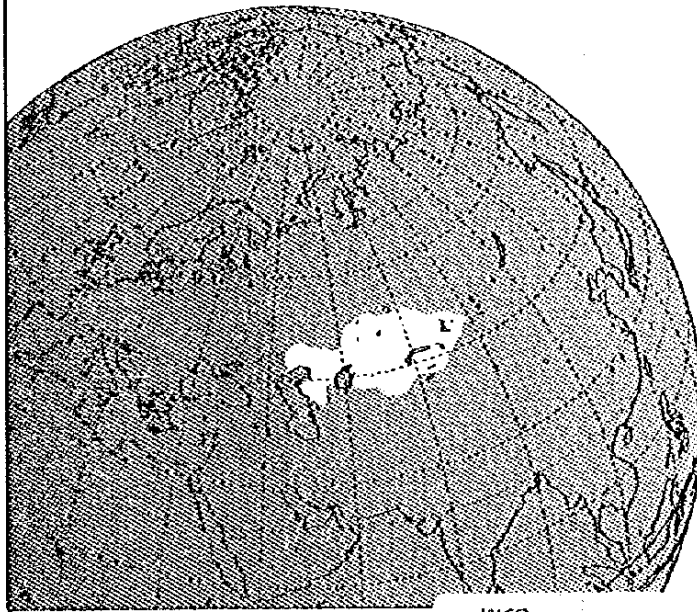


ҚАЗАҚСТАН РЕСПУБЛИКАСЫНЫҢ АЭРОКОСМОС ЖЭБІ

МІНІСТРЛІК БҰЛҒАНЫСЫНЫҢ АЭРОКОСМОС ЖЭБІ
ҚАЗАҚСТАН РЕСПУБЛИКАСЫНЫҢ АЭРОКОСМОС ЖЭБІ

THE STUDY
ON
AIR TRANSPORT DEVELOPMENT
IN
THE REPUBLIC OF KAZAKHSTAN



FINAL REPORT
Volume III : Appendix

March 1997

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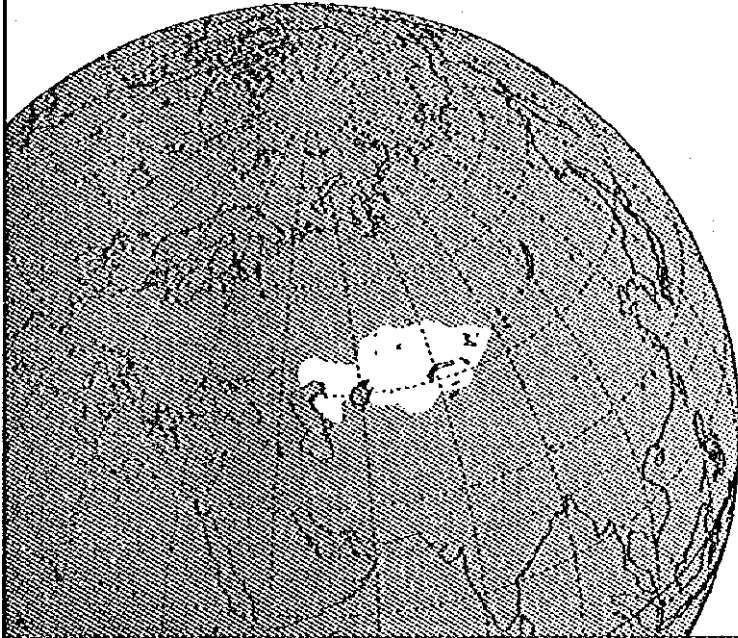
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JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)

**MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE REPUBLIC OF KAZAKHSTAN**

**THE STUDY
ON
AIR TRANSPORT DEVELOPMENT
IN
THE REPUBLIC OF KAZAKHSTAN**



FINAL REPORT

Volume III : Appendix

March 1997

PACIFIC CONSULTANTS INTERNATIONAL, TOKYO, JAPAN



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**THE STUDY
ON
AIR TRANSPORT DEVELOPMENT
IN
THE REPUBLIC OF KAZAKHSTAN**

**FINAL REPORT
VOLUME II : APPENDIX
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**APPENDIX TO
CHAPTER 1**

ПРОТОКОЛ

В СВЯЗИ С НАЧАЛЬНЫМ ОТЧЕТОМ

СОСТАВЛЕННЫМ ДЛЯ ИЗУЧЕНИЯ

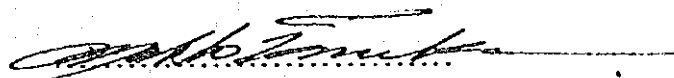
ПО РАЗВИТИЮ ВОЗДУШНОГО

ТРАНСПОРТА В КАЗАХСТАНЕ

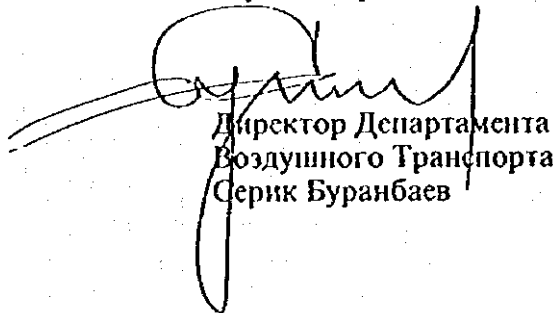
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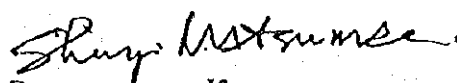
Министр Транспорта и
Коммуникаций
Юрий Лавриенко



Начальник исследовательской
Команды М. Танака



Директор Департамента
Воздушного Транспорта
Серик Буранбаев



Руководитель Консультативного
Комитета
Синъдзи Мацумаэ

Для начала работы над Изучением по развитию воздушного транспорта в Республике Казахстан в марте с. г. была отправлена в Казахстан Исследовательская Команда ИСА (Японской Агенства Международного Сотрудничества) для проведения первого осмотра. В первые числа апреля с. г. Исследовательская Команда представила начальный отчет с пояснением заинтересованным организациям Республики Казахстан. Для убеждения и уточнения соответствующей организованности и готовности со стороны Казахстана, также степени выполнения изученности имела серия встреч между японской и казахстанской сторонами.

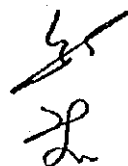

С 20 по 22 мая с. г. состоялся ряд встреч между японской стороной (консультативным комитетом ЯАМС и исследовательской Командой) и казахстанской стороной (занимающимися Изучением органами). Имелась отдельная встреча между японской стороной и министром Транспорта и Коммуникаций.

Присутствовавшие с обеих сторон указаны на прилагаемом листе.

Упомянув о Заявке (составленной Министерством Транспорта и Коммуникаций Республики в августе 1994 г.), Объем работы (составленном 8 ноября 1995 г.), также о Протоколе, последовавшем за Объемом работы (8 ноября 1995 г.), японская сторона выдвинула замечания по поводу выполнения изученности, в том числе по ознакомительному осмотру местных аэропортов для улучшения качества работы над Изучением. Казахстанская сторона обеспечила посещение и Изучение на местах 8 аэропортов. Вместе с тем казахстанская сторона выразила сожаление, что были недостатки своевременных решений вопросов в связи с проводимой реорганизацией гражданской авиации Республики Казахстан.

Ниже перечисляются согласованные и подтвержденные пункты обеими сторонами.

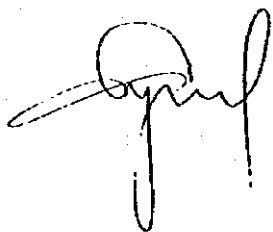
1. Казахстанская сторона поняла содержание начального отчета, и высказала свое мнение: не будет возражать, чтобы впредь Изучение осуществлялась не иначе.



2. Казахская сторона согласилась, что в работе Координационного Комитета и рабочей группы имелось место недостатков, для устранения которых Министр Транспорта и Коммуникаций даст соответствующее Указание. В Координационном Комитете координация работы возлагается на Директора Департамента Воздушного Транспорта.

В состав Координационного Комитета входят: Директор Департамента Воздушного Транспорта, Президент НААК, Генеральный директор Казэронавигации, Директор Института казпроекта, Должностное лицо, отвечающее за японскую правительственную помощь со стороны Комитета по использованию иностранного капитала.

3. Что касается получения требующей исследовательской Командой информации и данных, обещанных в Объем работы(пункт VII-4) и последующем в Протоколе, то исследовательская Команда получила их частично. Однако, для получения остальных данных, в частности указанных в прилагаемой перечне данных, японская сторона в последний раз высказала их первоочередную необходимость для Изучения. Казахская сторона в свою очередь выразила свою готовность сделать все возможное, чтобы представить подобную информацию для устранения препятствий к осуществлению Изучения.



22 мая 1996 г.



(ПРИЛОЖЕНИЕ-1)

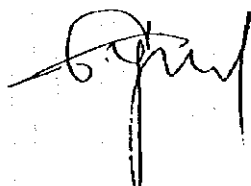
СПИСОК ПРИСУТСТВОВАВШИХ

1. С Казахстанской стороны:

г-н Юрий Лавриенко	Министр Транспорта и Коммуникаций
г-н Серик Буранбаев	Директор Воздушного Транспорта, МТК
г-н Толеукин Келбугаев	Директор Управления Внешних экономических связей, МТК
г-н Бакатау Нарышев	Заместитель Директора Воздушного Транспорта, МТК
г-н Владимир Сыщиков	Заместитель Председателя Комитета по использованию иностранного капитала

2. С Японской стороны:

г-н Макото Танака	Начальник Исследовательской Команды ЯАМС
г-н Масато Тамура	Замначальника Исследовательской Команды ЯАМС
г-н Синъдзи Мацумаэ	Руководитель Консультативного Комитета ЯАМС, Заместитель Директора проектирования авиастроительства конструкторского сектора ДВТ, МТ
г-н Масаки Иснй	Член Консультативного Комитета, Спец- помощник Директора управления авиа- строительством конструкторского сектора отдела аэродрома ДВТ, МТ
г-н Такао Такахаси	Член Консультативного Комитета, спецпомощник Директора, штурман по навигационным тех. средствам полета по приборам ОВД, ДВТ, МТ
г-н Тору Найто	Исследовательский сектор перво- очередного социального развития, исследовательского отдела социаль- ного развития, член ЯАМС
Юичиро Уои	Атташе посольства Японии в РК
Тору Баба	Член Исследовательской Команды, переводчик



(ПРИЛОЖЕНИЕ-2)

ПЕРЕЧЕНЬ ВЕСЬМА НЕОБХОДИМЫХ ДАННЫХ

1. Касается всех аэропортов:

аэродромные данные, инвентарь аэропортовых объектов, план расположения аэропорта, поэтажный чертеж здания, воздушные съемки

2. Касается обслуживания воздушного движения:

конфигурация ВПП, система ОВД, трассовая карта, распределительная схема навигационных средств, статистические данные по деятельности воздушного движения у каждого районного центра и у каждого аэропорта (за последние 3 года)

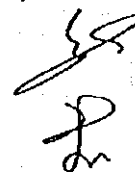
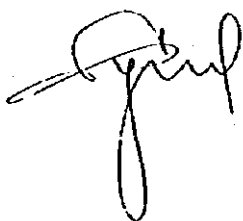
3. Схема организации(рабочей структуры) и численность работников НААК и Алматинского аэропорта: по функции и по руководящей части/неруководящей части(подчиненной части)

4. Финансовые данные НААК и Казаэронавигации

5. Баланс Алматинского аэропорта(активы и пассивы в разбивке по установленной форме), также документ о финансовом состоянии (прибыль/убыток) за 1994 и 1995 годы

6. Производительность воздушной перевозки:

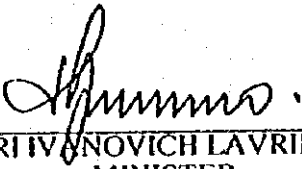
сводка эксплуатации(наличное место на борту на километры, пассажиры на километры, коэффициент загрузки мест) парк воздушных судов и их использование(степень эксплуатации)



MINUTES OF MEETING
ON
INCEPTION REPORT
FOR
THE STUDY
ON
AIR TRANSPORT DEVELOPMENT
IN
THE REPUBLIC OF KAZAKHSTAN

MINISTRY OF TRANSPORT AND COMMUNICATIONS
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

ALMATY, 22ND MAY, 1996



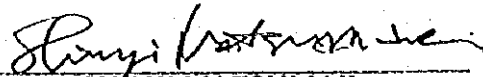
YURI IVANOVICH LAVRIENCO
MINISTER
OF
TRANSPORTATION AND
COMMUNICATIONS,
THE REPUBLIC OF
KAZAKHSTAN



MAKOTO TANAKA
LEADER
JICA STUDY TEAM



SERIK BURANBAEV
DIRECTOR
AIR TRANSPORT DEPARTMENT
MOTC



SHINJI MATSUMAE
LEADER
JICA ADVISORY COMMITTEE

Japan International Cooperation Agency, hereinafter referred to as "JICA", dispatched a JICA Study Team to conduct the first site survey of the Study of Air Transport Development in the Republic of Kazakhstan, hereinafter referred to as "the Study", 31 March, 1996.

Then the JICA Advisory Committee visited the Republic to hold meetings with the Kazakhstan side to confirm the correspondence of the Kazakhstan side on the Inception Report which were distributed to some organizations concerned at the beginning of April and the Study progress.

A series of the meetings was held between the Japanese side, the JICA Advisory Committee and the JICA Study Team, and the Kazakhstan side, representative of the organizations related to the Study from 20th to 22nd of May, 1996.

In addition, the meeting with the Minister of Transportation and Communications was also held.

The Japanese side expressed the concern on problems in the Study progress including the site survey of 8 airports, and requested to improve them, referring to the request of the Government of the Republic dated on August, 1994, and the Scope of Work and the Minutes of Meeting signed on 8th November, 1995.

The Kazakhstan side explained that they have made efforts to cooperate with the Team and to arrange the site survey of airports. In addition, the Kazakhstan side expressed their regret that there were not enough quick response to the Study due to the re-organization of civil aviation of Kazakhstan which has been carried out.

Both sides confirmed the following main issues for further progress of the Study.

1. The Kazakhstan side understood the purpose of the Study and the contents of the Inception Report and agreed that the Study would be conducted in accordance with the Inception Report.

2. The Kazakhstan side recognized that the current works of the Steering Committee and the Working Group was not enough, so that they agreed that the organizations would be strengthened by the instruction of the Minister of Transportation and Communications.

The strengthened Steering Committee will consist of the following members;

- Director of Air Transport Department, MOTC
- President of Kazakhstan Airlines


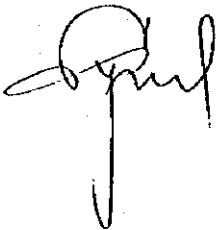


- General Director of Kaz Aeronavigation
- Director of Kaz Aero Project
- Committee for the Utilization of Foreign Capital (in charge of Japan)

3. Regarding the data requested by the Study Team based on VII, 4 of the Scope of Work and partially already provided to the Team, the Japanese side requested quick release of the remaining data and strongly requested to provide the data listed in Appendix-2 with high priority.

The Kazakhstan side agreed to facilitate as well as possible not to hamper the Study progress.

22 May, 1996



(APPENDIX-1)

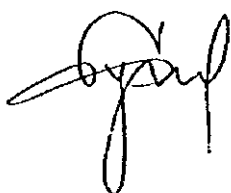
LIST OF ATTENDANCE

1. The Kazakhstan side

Mr. Yuri I. Lavrienco	Minister of Transportation and Communications
Mr. Serik Buranbaev	Director, Air Transport Department, MOTC
Mr. Toleuken J. Kelbuganov	Director, Foreign Economic Relations Department, MOTC
Mr. Bakatay Zh. Naryshev	Deputy Director, ATD, MOTC
Mr. Vladimir V. Syschikov	Deputy Chairman, Committee for the Utilization of Foreign Capital

2. the Japanese side

Mr. Makoto Tanaka	Leader, JICA Study Team
Mr. Masato Tamura	Deputy Leader, JICA Study Team
Mr. Toru Baba	Member, JICA Study Team
Mr. Shinji Matsumae	Leader, JICA Advisory Committee, Deputy Director, Construction Division, Aerodrome Department, Civil Aviation Bureau, Ministry of Transport
Mr. Masaki Ishii	Member, JICA Advisory Committee, Special Assistant to the Director, Construction Division, CAB, MOT
Mr. Takao Takahashi	Member, JICA Advisory Committee, Special Assistant to the Director, Visual Navigation Aids Office, Air Traffic Services Department, CAB, MOT
Mr. Toru Naitoh	Coordinator, First Social Development Study Division, Social Development Study Department, Japan International Cooperation Agency
Mr. Yuichiro Uoi	Attache, Embassy of Japan



(APPENDIX-2)

DATA LIST WITH HIGH PRIORITY

1. Airport(all of airports)

aerodrome data, airport facility inventory, airport layout, building floor plan,
aerial photograph

2. Air Navigation Service

airway configuration, ATC system, air route map, distribution chart of nav aids
air traffic activity statistics at each ACC and each airport (for latest 3 years)

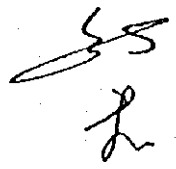
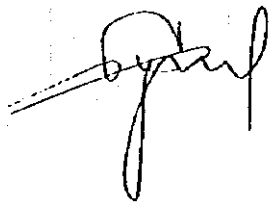
**3. Organization chart and number of employees of Kaz Air and Almaty Airport, by function
and by management/non-management**

4. Financial data of Kaz Air and Kaz Aeronavigation

5. Balance sheet and profit/loss statement of Almaty Airport (1994, 1995)

6. Airline productivity

operating summary (Available Seat Kilometers, Revenue Passenger Kilometers,
Passenger Load factor)
fleet and fleet utilization



**ПРОТОКОЛ ВСТРЕЧИ
ДЛЯ
ОТЧЕТА О ХОДЕ ВЫПОЛНЕНИЯ ИЗУЧЕНИЯ
ПО
РАЗВИТИЮ ВОЗДУШНОГО ТРАНСПОРТА
В КАЗАХСТАНЕ**

**МИНИСТЕРСТВО ТРАНСПОРТА И КОММУНИКАЦИЙ
И
ЯПОНСКОЕ АГЕНСТВО
МЕЖДУНАРОДНОГО СОТРУДНИЧЕСТВА**

7 ИЮНЯ 1996, АЛМАТЫ



СЕРИК БУРАНБАЕВ

ДИРЕКТОР
ДЕПАРТАМЕНТА ГРАЖДАНСКОЙ
АВИАЦИИ,
МИНИСТЕРСТВО ТРАНСПОРТА И
КОММУНИКАЦИЙ,
РЕСПУБЛИКА КАЗАХСТАН



МАКОТО ТАНАКА

РУКОВОДИТЕЛЬ
ИССЛЕДОВАТЕЛЬСКОЙ КОМАНДЫ
JICA,
ЯПОНСКОЕ АГЕНСТВО
МЕЖДУНАРОДНОГО
СОТРУДНИЧЕСТВА

1. Японское Агентство Международного Сотрудничества, здесь и далее "ЯАМС", командированная Исследовательская Команда ЯАМС, во главе с господином Макото Танака, занимается Изучением развития Авиаационного Воздушного Транспорта и технико-экономического обоснования в Республике Казахстан, здесь и далее "Изучение" с 31 марта по 11 июня 1996 г.

2. Исследовательская Команда проводила Изучение условий развития Воздушного Транспорта, социально-экономических условий и выполнила Первичное Изучение условий Окружающей Среды путем сбора данных, проведения опроса и практического Изучения деятельности аэропортов.

3. Исследовательская Команда предоставила Отчет о ходе выполнения Изучения (30 копий на англ. яз. и 18 копий на рус. яз.) казахстанской стороне и выразила свою благодарность за сотрудничество в процессе Изучения. В то же самое время, Исследовательская Команда ИСА ожидает дальнейшего сотрудничества с казахстанской стороной в плане сбора еще не полученных данных во время первой сессии пребывания, что будет способствовать продуктивности Исследовательской работы.

4. Казахстанская сторона поддержала идею дальнейшего сотрудничества по данному Изучению в плане привнесения вклада в развитие Воздушного Транспорта в Казахстане.

5. Список участников прилагается далее.

7 июня, 1996

(ПРИЛОЖЕНИЕ)

СПИСОК УЧАСТНИКОВ

1. Казахстанская сторона

Господин Серик Буранбаев	Директор, Департамент Гражданской Авиации, МТК
Господин Роустем Бектоуров	Президент НААК
Господин Турискали М. Мадигожин	Генеральный Директор Казэронавигации
Господин Амангелды Р. Раисов ()	Директор Института Казавиапроекта Комитет по Использованию Иностранного Капитала
Господин Бакатай Ж. Нарышев	Заместитель Директора, Департамент Гражданской Авиации, МТК
Господин Бекполат Салимов	Начальник, Отдел Международных дел, Департамент Гражданской Авиации, МТК
Господин Айыр Илмасов	Департамент Гражданской Авиации
Господин Буряк И. Гордеевич	Замгенерального Директора Казэронавигации

2. Японская сторона

Господин Макото Танака	Начальник Команды, Исследовательская Команда ЯАМС
Господин Масато Тамура	Заместитель Начальника Команды
Господин Хаято Нагасава	Член Команды
Господин Канъдзи Эхира	Член Команды
Господин Шоухей Нагатаке	Член Команды
Господин Рюдзиро Ямагиши	Член Команды
Господин Такенобу Судзуки	Член Команды
Господин Ги Шансон	Член Команды
Господин Питер Е. Дж. Девис	Член Команды
Господин Кацуэцэ Масуя	Член Команды
Господин Тору Баба	Член Команды

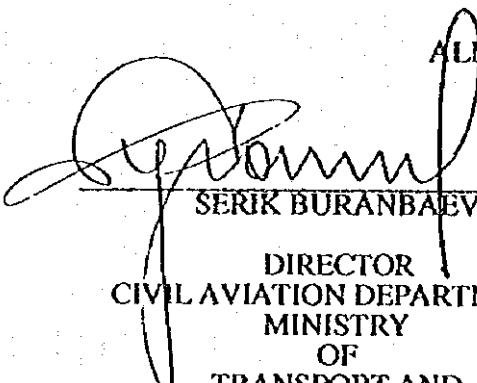
MINUTES OF MEETING
ON
PROGRESS REPORT
FOR
THE STUDY
ON
AIR TRANSPORT DEVELOPMENT
IN
THE REPUBLIC OF KAZAKHSTAN

MINISTRY OF TRANSPORT AND COMMUNICATIONS

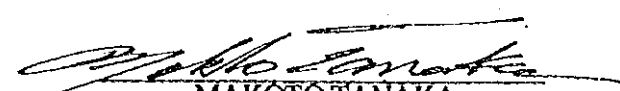
AND

JAPAN INTERNATIONAL COOPERATION AGENCY

ALMATY, 7TH JUNE, 1996



SERIK BURANBAEV
DIRECTOR
CIVIL AVIATION DEPARTMENT,
MINISTRY
OF
TRANSPORT AND
COMMUNICATIONS,
THE REPUBLIC OF KAZAKHSTAN



MAKOTO TANAKA
LEADER
JICA STUDY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY


1. The Japan International Cooperation Agency, hereinafter referred to as "JICA", dispatched a JICA Study Team, headed by Mr. Makoto Tanaka, for the Study of Air Transport Development in the Republic of Kazakhstan, hereinafter to as "the Study", to Kazakhstan for the First Field Survey from 31 March to 11 June, 1996.

2. The Study Team conducted the study on the condition of air transport and socio-economy and performed the Initial Environmental Examination through data collection, interviewing and the site survey at airports.

3. The Study Team submitted 30 copies of English version and 18 copies of Russian Summary of the Progress Report to the Kazakhstan side and explained thereon and expressed their gratitude for their collaboration to the Study. At the same time, the JICA Study Team expressed their expectation for further cooperation of the Kazakhstan side to collect data which were not yet obtained during the first survey of the Study Team and which would contribute to make the Study well-qualified.

4. The Kazakhstan side expressed their further cooperation to the Study and also their expectation for the Study to contribute to develop the air transport in Kazakhstan.

5. The list of attendance is attached herewith.



7 June, 1996

(APPENDIX)

LIST OF ATTENDANCE

1. The Kazakhstan side

Mr. Serik Buranbaev	Director, Civil Aviation Department, Ministry of Transport and Communications
Mr. Roustem Bektourov	President, Kazakhstan Airlines
Mr. Turiskali M. Madigozhin	General Director, Kaz Aeronavigation
Mr. Amangeldy R. Raisov	Director, Kaz Air Project
()	Committee for the Utilization of Foreign Capital
Mr. Bakatay Zh. Naryshev	Deputy Director, CAD, MOTC
Mr. Salimov Bekpoulat	Chief, International Affairs, CAD, MOTC
Mr. Ayir Iliasov	CAD, MOTC
Mr. Buryak I. Gordeevich	Deputy General Director, Kaz Aeronavigation

2. The Japanese side

Mr. Makoto Tanaka	Team Leader, JICA Study Team
Mr. Masato Tamura	Deputy Team Leader
Mr. Hayato Nagasawa	Member
Mr. Kanji Ehira	Member
Mr. Shouhei Nagatake	Member
Mr. Ryuujiro Yamagishi	Member
Mr. Takenobu Suzuki	Member
Mr. Guy Chiasson	Member
Mr. Peter E. J. Davies	Member
Mr. Katsuetsu Masuya	Member
Mr. Toru Baba	Member
Mr. Hidehisa Yoshida	Member
Mr. Yuichiro Uoi	Attache, Embassy of Japan

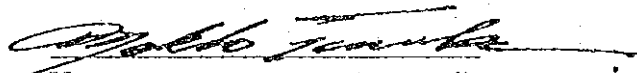


ПРОТОКОЛ ВСТРЕЧИ
ДЛЯ
ПРОМЕЖУТОЧНОГО ОТЧЕТА ИЗУЧЕНИЯ
РАЗВИТИЯ ВОЗДУШНОГО ТРАНСПОРТА
В РЕСПУБЛИКЕ КАЗАХСТАНЕ

МИНИСТЕРСТВО ТРАНСПОРТА И КОММУНИКАЦИЙ
И
ЯПОНСКОЕ АГЕНСТВО
МЕЖДУНАРОДНОГО СОТРУДНИЧЕСТВА



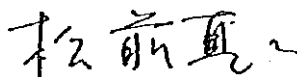
Министр Транспорта и
Коммуникаций РК
Юрий Лавриненко



Начальник исследовательской
Команды
Макото. Танака



Исполняющий обязанности
Директора Департамента
Воздушного Транспорта
Беккулат Салимов



Руководитель Консультативного
Комитета
Синдзи Мацумаэ

Алматы, 27 сентября 1996г.

1. Японское Агентство по Международному Сотрудничеству (JICA) направило исследовательскую Команду во главе г-ном Макото Танака в Республику Казахстан для проведения осмотра на месте сроком с 21 сентября по 4 ноября.

Это является частью программы Изучения развития воздушного транспорта в Республике Казахстане. 23 сентября 1996 г. исследовательская Команда предоставила промежуточный Отчет (30 экземпляров основного текста на английском языке и 18 экземпляров сводного текста на русском языке) казахстанской стороне. С 24 по 27 сентября проведен целый ряд совещаний между Координирующим Комитетом во главе г-ном Салимовым Бекпулатом и исследовательской Командой и Консультативным Комитетом во главе г-ном Синъдзи Мацумаэ с японской стороной.

2. В ходе встреч и совещаний стороны согласились о ниже следующем:

Казахстанская сторона выразила понимание основной стратегии дальнейшего развития воздушного транспорта в Республике, о прогнозе спроса, а также планов развития аэропортов и авианавигационной системы. Что касается Изучения ТЭО, то 6 приоритетных аэропортов (в том числе аэропорт в г. Акмоле) были одобрены казахстанской стороной. Казахстанская сторона также согласилась, что планы развития должны быть реальными и экономически эффективными. Планы развития будут основываться на существующих аэродромных площадях, где это возможно.

Касательно модернизации национального авиаперевозчика после принятого правительством Республики Казахстан постановления от 20 августа 1996 года, исследовательская Команда понимает данное постановление как новый этап развития и с учетом этого будет предлагать планы дальнейшего развития воздушного комплекса в целом.

В отношении авиационной администрации и государственного регулирования исследовательская Команда предложит разработку административного подхода к регулированию законодательством авиации в целях обеспечения безопасности гражданской авиации и качественного управления воздушным комплексом.

3. Казахстанская сторона поставила в известность о том, что правительство Республики Казахстан уже обратилось к правительству

Список участников

Казахстанская сторона:

- | | |
|---------------------|---|
| 1. Салимов Бекпулат | И.О. Директора ДВТ |
| 2. Назмутдинов | Доверенный Управляющий
"КазАуэЖолы" |
| 3. Якубаев Э.М. | Консультант, Отдел Внешних Связей
Аппарата Правительства РК |
| 4. Мадигожин Т.М. | Генеральный Директор
"Казэронавигация" |
| 5. Жунусов Е.Ж. | Зам. Директора ДВТ |
| 6. Прибоев Н.Н. | Зам. генерального директора
"Казэронавигация" |
| 7. Раисов А.Р. | Директор Казэропроекта |
| 8. Ильясов А.К. | И.О. Начальника отдела международных
связей ДВТ |
| 9. Шерстюк И.Б. | Главный Специалист ДВТ по аэропортам |
| 10. Сарин Кайжан | Главный Специалист Управления Развития |
| 11. Калдыбаева Т. | Советник Председателя Государственного
Комитета по управлению имуществом
РК |

Японская сторона:

- | | |
|---------------------|--|
| 1. Макото Танака | Начальник исследовательской Команды
JICA |
| 2. Масато Тамура | Зам. начальника исследовательской
команды |
| 3. Хаято Нагасава | Член Команды |
| 4. Канъдзи Эхира | Член Команды |
| 5. Шохэй Нагатакэ | Член Команды |
| 6. Рюдзиро Ямагиси | Член Команды |
| 7. Тору Йоритакэ | Член Команды |
| 8. Джессика Морис | Член Команды |
| 9. Петер Дэвис | Член Команды |
| 10. Кацуэцу Масуя | Член Команды |
| 12. Тору Баба | Член Команды |
| 13. Юитиро Уой | Атташе посольства Японии в РК |
| 14. Синъдзи Мацумаэ | Руководитель Консультативного
Комитета |
| 15. Масаки Исий | Член Консультативного Комитета |
| 16. Такао Такахаси | Член Консультативного Комитета |
| 17. Сачико Мисуми | Член JICA |


Японии за помощью предоставить финансовые средства для развития аэропорта в Акмоле, и выразила надежду на то, чтобы иметь современный аэропорт для будущей столицы, а также для того чтобы результаты Изучения внесли вклад в скорейшее принятие решения по предоставлению финансовых средств.

4. Стороны убедились в необходимости более тесного сотрудничества между сторонами для дальнейшего развития общей работы.

5. Список участников прилагается далее

6. *Казахстанская сторона информирована о решении Правительства, строить новый аэропорт на новом месте в г. Акмоле.*

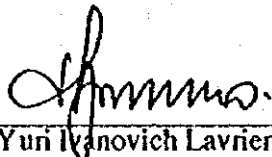
27 сентября 1996 г.



MINUTES OF MEETING
ON
INTERIM REPORT
FOR
THE STUDY
ON
AIR TRANSPORT DEVELOPMENT
IN
THE REPUBLIC OF KAZAKHSTAN

MINISTRY OF TRANSPORT AND COMMUNICATIONS
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

ALMATY, 27 SEPTEMBER, 1996



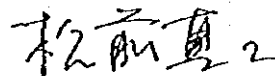
Yuri Ivanovich Lavrienco
Minister
of
Transport and Communications
The Republic of Kazakhstan



Makoto Tanaka
Leader
JICA Study Team



Safimov U. Bekpulat
Acting Director
Civil Aviation Department
MOTC



Shinji Matsumae
Leader
JICA Advisory Committee

1. The Japan International Cooperation Agency, hereinafter referred to as "JICA", dispatched a Study Team, headed by Mr. Makoto Tanaka, to Kazakhstan for the Second Field Survey from 21 September to 4 November, 1996. This is part of the Study of Air Transport Development in the Republic of Kazakhstan, hereinafter to as "the Study".

The Study Team submitted 30 copies of English version of the Interim Report and 18 copies of its summary in Russian to the Kazakhstan side on 23 September, 1996.

A series of meetings was held between the Kazakhstan Steering Committee, headed by Mr. Salimov U. Bekpulat, and the Japanese side, the Study Team and JICA Advisory Committee, headed by Mr. Shinji Matsumae, between 24 and 27 September, 1996.

2. Through the meetings, both the Kazakhstan and Japanese sides confirmed the following:

- Regarding the master plan for air transport development, the Kazakhstan side agreed to the proposed: overall development strategies; demand forecast; and development strategy for the airports and air navigation system.
- Regarding the feasibility study for airport development, the Kazakhstan side agreed that these will be conducted for the six priority airports, including Akmola, proposed in the Interim Report. They further agreed that any resulting development plans will be realistic and cost-effective. Wherever feasible, the development plans will apply to existing airport sites.
- Regarding modernization of national airline, since the Government of Kazakhstan established the Government Decree on national airline on 20 August, 1996, the Study Team will take this new development into consideration when developing proposal for the air carrier industry.
- Regarding air transport administration, the Study will propose development strategies for aviation administration and state regulation to promote civil aviation safety and sound management of air transportation industries in the market-oriented economy.

3. The Kazakhstan side informed the Japanese side that the Government of Kazakhstan had already requested financial assistance from the Government of Japan to develop Akmola airport. The Kazakhstan side expressed their expectation that the development plan for this airport would appropriately reflect the importance of the new national capital of Akmola and that the Study would contribute to facilitate subsequent decision regarding implementation of the plan.

4. Both sides confirmed their commitment to continued cooperation to ensure progress in the conduct of all future activities relating to the Study.

5. A list of the officials attending the meetings is attached.

6. The Kazakhstan side informed the decision of the Government on construction of a new Akmola airport at a new site.

App. 1 - 22

27 September, 1996

LIST OF ATTENDANCE

1. The Kazakhstan side

Mr. Salimov B. U.	Acting Director, Civil Aviation Department, Ministry of Transport and Communications (CAD, MOTC)
Mr. Nazmutdinov	Trust Manager, Kazakhstan Airlines
Mr. Yakubaev E. M.	Consultant, External Relations, Department of Government
Mr. Madigozhin T. M.	General Director, Kazaeronavigation
Mr. Zhunusov E. Z.	Deputy Director, CAD
Mr. Priboev N. N.	Deputy General Director, Kazaeronavigation
Mr. Raisov A. R.	Director, Kaz Air Project
Mr. Iliasov A. K.	Acting Chief, International Relations, CAD
Mr. Sherstyuk I. B.	Chief Airport Section, CAD
Mr. Sarin K. T.	Chief Development Management, MOTC
Mr. Kaldybaev T.	Advisor, State Property Committee

2. The Japanese side

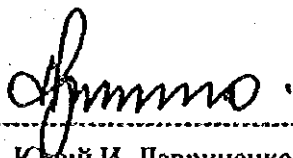
Mr. Makoto Tanaka	Team Leader, JICA Study Team
Mr. Masato Tamura	Deputy Team Leader
Mr. Hayato Nagasawa	Member
Mr. Kanji Ehira	Member
Mr. Shouhei Nagatake	Member
Mr. Ryuujiro Yamagishi	Member
Mr. Toru Yoritake	Member
Ms Jessica Morris	Member
Mr. Peter Davies	Member
Mr. Katsuetu Masuya	Member
Mr. Toru Baba	Member
Mr. Hidehisa Yoshida	Member
Mr. Yuichiro Uoi	Attache, Embassy of Japan
Mr. Shinji Matsumae	Leader, JICA Advisory Committee, Deputy Director, Construction Division, Aerodrome Department, Civil Aviation Bureau, Ministry of Transport
Mr. Masaki Ishii	Member, Special Assistant to Director, Construction Division, CAB, MOT
Mr. Takao Takahashi	Member, Special Assistant to Director, Visual Navigation Aids Office, Air Traffic Services Department, CAB, MOT
Ms Sachiko Misumi	Staff, JICA



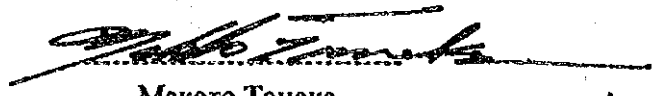
**ПРОТОКОЛ ВСТРЕЧИ
ДЛЯ
ПРОЕКТА ОКОНЧАТЕЛЬНОГО ОТЧЕТА ИЗУЧЕНИЯ
РАЗВИТИЯ ВОЗДУШНОГО ТРАНСПОРТА
В РЕСПУБЛИКЕ КАЗАХСТАН**

**МИНИСТЕРСТВО ТРАНСПОРТА И КОММУНИКАЦИЙ
И
ЯПОНСКОЕ АГЕНСТВО ПО
МЕЖДУНАРОДНОМУ СОТРУДНИЧЕСТВУ**

АЛМАТЫ, 17 ЯНВАРЯ 1997 г.



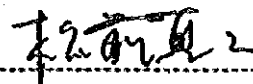
Юрий И. Лавриненко
Министр
Транспорта и коммуникаций
Республики Казахстан



Макото Танака
Начальник
исследовательской Команды
ЯАМС



Бекнулат У. Салимов
Исполняющий обязанности Председателя
Комитета по использованию воздушного
пространства и деятельности ГА



Синьдзи Мацумаэ
Руководитель
Консультативного комитета
ЯАМС

1. Японское Агентство по Международному Сотрудничеству (JICA) направило исследовательскую Команду во главе г-ном Макото Танака и Консультативный комитет во главе г-ном Синьдзи Мацумаэ в Республику Казахстан для презентации проекта окончательного Отчета о Изучении развития воздушного транспорта в Республике Казахстан сроком с 12 по 20 января 1997 года.

14 января 1997 года исследовательская Команда представила казахстанской стороне 30 экземпляров проекта окончательного Отчета на английском языке и 18 экземпляров его сводки на русском языке.

16 января 1997 года в Министерстве Транспорта и Коммуникаций было проведено совещание между Координационным комитетом во главе господином Салимовым Бекпулатом и японской стороной. Работой сессии руководил министр Транспорта и Коммуникаций, господи Лавриненко Ю. И.

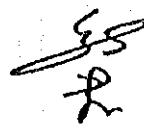
2. Стороны пришли к общему выводу и пониманию о следующем:

- 1) Японская сторона представила концептуальное предложение о планировании и проектировании ТЭО для аэропортовых проектов согласно прогнозу спроса на воздушный транспорт. Представленное предложение будет уточняться и приниматься как окончательными проектами после обсуждений вместе с назначенным субъектом проектов с казахстанской стороны, а также с пользователями аэропортов на стадии дальнейшей разработки исполнительного плана проектов. До начала осуществления проектов необходимо, чтобы правительство Казахстана своевременно назначало: кто будет являться субъектом проектов.
- 2) В ходе совещаний казахстанская сторона согласилась на основное содержание проекта окончательного Отчета и обещала сделать замечания с последующей отправкой в Японию с таким расчетом, чтобы японская сторона могла получить до 17 февраля 1997 года.
- 3) Казахстанская сторона согласилась, что содержание Отчета будет сделан гласным в Японии согласно политике и практике правительства Японии.

3. В заключение совещаний стороны выразили благодарность друг другу за взаимное сотрудничество, оказанное последовательно во время Изучения.

4. Список участников прилагается далее.

17 января 1997



Список участников

1. Казахстанская сторона

г-н Салимов У. Бекпулат	И.О. Председателя Комитета по использованию воздушного пространства и деятельности гражданской авиации РК
г-н Бектуров Р. С.	Президент "Айр Казахстан"
г-н Якубаев Э. М.	Консультант, Отдел внешних связей Аппарата Правительства РК
г-н Мадигожин Т. М.	Генеральный директор "Казэронавигация"
Бекмухамбетов	Заместитель директора комитета по использованию воздушного пространства и деятельности гражданской авиации РК
г-н Раисов А. Р.	Директор Казэропроекта
г-жа Уйсимбев Г. С.	Гл. Специалист комитета по ИВП и деятельности ГА использованию воздушного пространства и деятельности гражданской авиации РК
г-н Шерстюк И. Б.	Главный специалист комитета по аэропортам
г-н Калдыбаев Т.	Советник председателя Государственного комитета по управлению имуществом РК
г-жа Луганская Г. А.	Начальник отдела транспорта и коммуникаций Минфина РК
г-н Абдреев Б. С.	Начальник отдела развития коммуникаций Министерства РК

2. Японская сторона

г-н Макого Танака	Начальник исследовательской Команды ЯАМС
г-н Масато Тамура	Зам. Начальника исследовательской Команды
г-н Ригер Дэвис	Член Команды
г-н Тору Баба	Член Команды
г-н Юитиро Уой	Атташе посольства Японии в РК
г-н Синьдзи Мацумаэ	Руководитель консультативного Комитета ЯАМС Зам. Директора строительного сектора аэродромного отделения ДГА Министерства транспорта
г-н Масаки Исий	Член Комитета
г-н Такао Такахаси	Член Комитета
г-жа Рэйко Акэдзуми	Персонал ЯАМС

MINUTES OF MEETING
ON
DRAFT FINAL REPORT
FOR
THE STUDY
ON
AIR TRANSPORT DEVELOPMENT
IN
THE REPUBLIC OF KAZAKHSTAN

MINISTRY OF TRANSPORT AND COMMUNICATIONS
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

ALMATY, 17 JANUARY, 1997



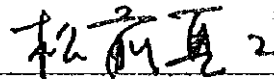
Yur Ivanovich Lavrinenco
Minister
of
Transport and Communications
The Republic of Kazakhstan



Makoto Tanaka
Leader
JICA Study Team



Salimov U. Bekpulat
Acting Chairman
Committee for Utilization of
Air Space and Civil Aviation,
MOTC



Shinji Matsumae
Leader
JICA Advisory Committee

1. The Japan International Cooperation Agency, hereinafter referred to as "JICA", dispatched a Study Team, headed by Mr. Makoto Tanaka, and an Advisory Committee, headed by Mr. Shinji Matsumae, to Kazakhstan from 13 to 18 January, 1997. The purpose of the visit was to present the draft final report of the Study on Air Transport Development in the Republic of Kazakhstan, hereinafter referred to as "the Study".

The Study Team submitted 30 copies of the English version of the Draft Final Report and 18 copies of its summary in Russian to the Kazakhstan side on 14 January, 1997.

A series of meetings, which was chaired by the Minister, was held between the Kazakhstan side's Steering Committee, headed by Mr. Salimov U. Bekpulat, and the Japanese side at the Ministry of Transport and Communications on 16 January, 1997.

2. Both the Kazakhstan and Japanese sides came to a common understanding on the following issues:

- 1) The Japanese side presented conceptual proposals for the planning and design of airport projects feasibility study in compliance with future traffic demand forecast. The final and more precise plans and designs would be determined through discussions with the designated project authority on the Kazakhstan side and with airport users during the design stage of project implementation. This will necessitate the timely designation of the project authority by the Kazakhstan Government prior to project implementation.

- 2) Following the meetings, the Kazakhstan side agreed with the basic contents of the draft final report and undertook to provide any comments, if any, to the Japanese side to arrive in Japan by 17 February, 1997.

- 3) The Kazakhstan side agreed that the contents of the Final Report be made public in Japan in accordance with the Japanese Government's policy and practice.

3. At the conclusion of the meetings, both sides expressed their gratitude for the cooperation that had existed for the duration of the Study.

4. A list of the officials who attended the various meetings is attached.

17 January, 1997,



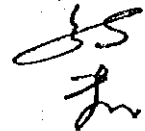
ATTENDANCE LIST

1. The Kazakhstan side

Mr. Salimov U. Bekpulat	Acting Chairman, Committee of Utilization of Air Space and Civil Aviation, Ministry of Transport and Communications (CUASCA, MOTC)
Mr. Bekturov R.S.	President, Air Kazakhstan
Mr. Yakubaev E. M.	Consultant, External Relations, Department of Government
Mr. Madigozhin T. M.	General Manager, Kazaeronavigation
Mr. Bekmukhambetov. K.B.	Deputy Chairman, CUASCA, MOTC
Mr. Raisov A. R.	Director, Kaz Air Project
Ms Uysimbaeva G.S.	Chief Specialist, CUASCA, MOTC
Mr. Sherstyuk I. B.	Chief Airport Section, CAD
Mr. Kaldybaev T.	Advisor, State Property Committee
Ms Luganskaya G. A.	Director of Transport of Communications, Ministry of Finance
Mr. Abdreev B. S.	Director of Communications, Ministry of Economy

2. The Japanese side

Mr. Makoto Tanaka	Team Leader, JICA Study Team
Mr. Masato Tamura	Deputy Team Leader
Mr. Peter Davies	Member
Mr. Toru Baba	Member
Mr. Yuichiro Uoi	Attach, Embassy of Japan
Mr. Shinji Matsumae	Leader, JICA Advisory Committee, Deputy Director, Construction Division, Aerodrome Department, Civil Aviation Bureau, Ministry of Transport
Mr. Masaki Ishii	Member, Special Assistant to Director, CAB, MOT
Mr. Takao Takahashi	Member, Special Assistant to Director, Visual Navigation Aids, Office, Air Traffic Services Department, CAB, MOT
Ms Reiko Akezumi	Staff, JICA



**APPENDIX TO
CHAPTER 2**

Appendix-2.1.1

Time serial yearly and monthly productions until 1995 for each item of extraction, manufacturing and agriculture

Industrial Production

Period	Extraction					
	Coal	Brown coal	Natural gas	Crude petrol-eum	Iron ore	
	thousand metric ton	thousand metric ton	million cubic metres	thousand metric ton	metric ton	
1985	130,816	282	5,456	21,381	22,977	
1986	137,799	562	5,824	21,581	23,630	
1987	142,053	783	6,311	21,814	24,224	
1988	143,087	2,373	7,134	22,248	24,342	
1989	138,355	3,147	6,710	21,953	23,764	
1990	131,443	3,443	7,114	21,676	23,846	
1991	130,382	3,919	7,885	22,036	21,993	
1992	126543	4152	8113	21934	17671	
1993	111873	4669	6685	19558	13129	
1994	Jan.	9,932	457	429	1,505	683
	Feb.	8,362	441	382	1,286	821
	Mar.	9,603	411	425	1,422	1,029
	Apr.	9,394	422	410	1,498	943
	May	8,930	372	385	1,601	1,014
	Jun.	8,095	382	320	1,550	465
	Jul.	7,925	145	335	1,656	759
	Aug.	8,700	413	356	1,614	1,044
	Sep.	8,336	454	297	1,709	864
	Oct.	8,052	466	340	1,647	805
	Nov.	8,305	403	394	1,507	1,098
	Dec.	8,722	419	401	1,507	996
1994		104,356	4,785	4,490	18,554	10,521
1995	Jan.	7,861	365	415	1,399	1,228
	Feb.	7,953	337	371	1,156	1,163
	Mar.	8,656	283	465	1,221	1,212
	Apr.	6,861	121	408	1,486	1,149
	May	6,219	106	446	1,648	1,358
	Jun.	2853	166	393	1536	1368
	Jul.	5615	211	387	1610	1161
	Aug.	6691	422	378	1587	1270
	Sep.	6996	281	390	1529	1125
	Oct.	7228	374	477	1600	1211
	Nov.	7993	450	496	1587	1491
	Dec.	8235	515	642	1576	1397
1995		83199	3685	5916	17935	15133

Industrial Production

Period	Extraction			
	Bauxite	Copper ore	Tin concentrates	Lead-zinc ore
In % to corresponding period of previous year				
1985	105.0	103.6	127.8	100.7
1986	98.0	102.8	99.0	99.3
1987	98.8	102.3	113.6	98.4
1988	98.0	101.4	96.3	101.1
1989	110.5	100.1	87.6	100.2
1990	100.9	95.3	94.0	94.6
1991	94.4	92.5		94.2
1992	99.1	99.8		86.9
1993	95.9	94.8		64.8
1994	Jan.	92.2	102.1	-
	Feb.	97.3	53.5	-
	Mar.	110.2	73.5	41.4
	Apr.	83.6	92	-
	May	97.1	79.9	-
	Jun.	98.3	76.3	41.5
	Jul.	90.3	83.1	-
	Aug.	73.2	70.2	-
	Sep.	87.5	69.4	57.1
	Oct.	62.8	65.4	-
	Nov.	81.5	62.9	-
	Dec.	90.6	98.6	119.8
1994		88.8	75.0	49.8
1995	Jan.	105.5	60.3	-
	Feb.	113.0	89.1	-
	Mar.	89.3	58.1	117.0
	Apr.	119.9	43.6	-
	May	112.1	46.2	-
	Jun.	107.1	99.9	73.3
	Jul.	125.6	186.8	-
	Aug.	334.6	153.0	-
	Sep.	294.7	176.5	-
	Oct.	171.1	54.3	111.0
	Nov.	162.7	83.9	132.0
	Dec.	128.4	55.8	204.7
1995		94.6	56.4	145.5

Manufacturing Production

Period	Building materials cement	Cast iron	Rental black-metal (ready)	Steel	Benzine	Diesel fuel	Cotton yarn	Woven cotton fabrics
	thousand metric ton	thousand metric ton	thousand metric ton	thousand metric ton	thousand metric ton	thousand metric ton	thousand metric ton	million sq. m
1985	7,549.3	4,932.0	4,188.0	6155.4	2116.5	3351.5	38.0	132.6
1986	8,065.5	4,890.1	4,566.0	6495.6	1694.9	4303.2	39.5	136.2
1987	8,349.2	4,796.9	4,580.0	6554.8	2976.7	4463.4	39.3	120.2
1988	8,446.1	4,940.4	4,874.0	6765.5	3705.3	4890.5	41.2	146.8
1989	8,649.5	5,278.9	5,013.0	6830.9	3739.8	5209.2	41.7	149.5
1990	8,300.7	5,226.4	4,899.0	6753.5	3494.9	4973.9	39.9	151.3
1991	7,575.0	4,953.0	4,660.0	6377.1	3562.4	5007.9	36.9	133.8
1992	6,436.3	4,666.3	4,342.0	6063.1	3374.8	4545.7	38.6	135.3
1993	3,963.3	3,551.7	3,436.1	4557.5	2896.1	4333.9	35.0	135.8
1994								
Jan.	150.3	194.3	223.7	229.7	129.3	277.2	1.9	7.5
Feb.	102.7	158.3	132.8	179.9	218.4	276.4	1.0	7.7
Mar.	139.4	170.7	167.9	194.3	170.6	226.6	2.2	6.9
Apr.	223.2	230.7	192.3	280.8	137.6	203.8	2.7	9.5
May	160.2	253.6	223.0	318.3	273	427.2	2.5	9.6
Jun.	174.4	225.9	228.9	289.6	159.6	234.3	2.4	7.9
Jul.	202.1	207.9	189.6	259.7	141.4	207.5	2.3	7.7
Aug.	217.8	216.3	193.4	252.4	226.6	433.1	1.5	6.3
Sep.	209.4	189.8	185.5	231	231.9	354.1	1.0	6.6
Oct.	204.5	191.9	216.6	240.8	174.4	323.3	1.0	5.7
Nov.	118.8	196.3	187.4	238.3	150.1	240.4	0.8	5.3
Dec.	130.6	200.1	193.2	253.1	164.3	266.8	0.5	4.0
1994	2,033.4	2,435.8	2,319.3	2968.1	2077.2	3470.7	19.8	84.7
1995								
Jan.	65.2	213.8	212.2	259.6	201.1	231.3	0.4	2.9
Feb.	110.9	202.0	204.9	245.7	121.5	195.4	0.4	1.3
Mar.	145.5	242.9	242.8	315.5	106.4	202.5	0.5	2.9
Apr.	189.1	241.6	232.8	293.7	159.2	288.7	0.5	2.4
May	132.8	210.8	174.7	252.4	249.8	356.8	0.4	1.2
Jun.	172.3	236.2	156.0	270.9	209.4	288.3	0.5	3.7
Jul.	187.4	216.2	164.3	260.4	150.9	259.2	0.2	1.7
Aug.	169.8	213.1	215.5	232.7	188.6	311.1	0.1	0.6
Sep.	179.2	167.0	148.7	203.1	213.9	335.3	0.1	0.9
Oct.	151.7	170.6	186.2	201.1	182.4	280.2	0.2	0.7
Nov.	146.8	187.8	109.7	217.1	216.6	247.3	0.3	1.0
Dec.	121.7	225.7	173.6	276.3	232.3	300.8	0.7	2.1
1995	1,772.4	2,592.2	2,095.8	3028.4	2186.8	3303.5	4.2	21.3

Manufacturing Production

Period	Meat inc. category sub-Prod.	Milk products	Butter	Cheese include salty cheese	Wine	Oil	Wheat flour	Sugar	Non-alcoholic beverage	Cigarettes	
	thousands metric ton	thousands metric ton	thousands metric ton	thousands metric ton	thousands dals	thousands ton	thousands ton	thousands ton	decs-litres	million unit	
1980	607.8	1,128.9	60.0	24.2	16,903.0	93.7	1,892.6	271.6	14,949.0	11,966.0	
1985	665.4	1,224.9	69.3	28.5	12,128.0	74.1	1,962.5	337.0	17,634.0	16,250.0	
1986	807.2	1,269.2	74.4	29.8	5,915.0	75.5	1,939.1	342.3	21,767.0	17,838.0	
1987	848.1	1,433.0	75.9	30.3	6,586.0	80.0	1,934.6	348.6	23,769.0	17,511.0	
1988	868.7	1,470.5	79.6	32.7	7,829.0	85.4	1,929.4	314.0	24,925.0	16,950.0	
1989	946.2	1,491.1	83.3	35.1	7,373.0	92.2	1,968.3	377.3	26,861.0	16,100.0	
1990	898.6	1,469.6	85.1	35.2	6,590.0	95.0	1,962.0	319.1	24,112.0	12,495.0	
1991	845.9	1,392.6	76.0	33.3	7,831.0	101.0	2,013.4	306.8	19,159.0	9,536.0	
1992	632.6	1074.2	61.6	22.6	4723	59.5	1970.4	213	8719	8997	
1993	547.2	872.9	66.9	22.5	2340	43.8	1924.4	111.5	6517	10664	
1994	Jan.	42.6	52.7	1.9	0.9	105	3.7	168.7	-	268	933
	Feb.	33.4	49.5	2	1	102	3.4	159	-	223	881
	Mar.	31.9	55.3	3	1.3	116	3.9	165.6	-	394	867
	Apr.	33.5	48	3.7	1.4	143	5.3	168.1	-	470	1354
	May	29.6	47	5.9	1.9	160	3	155.2	8	580	295
	Jun.	30.7	44.8	7.8	2.3	167	3.1	120	8.7	995	12
	Jul.	30.8	40.6	7.4	2.4	137	2.3	132.3	9.9	536	645
	Aug.	40.6	34.1	6.3	2.1	195	0.8	147.1	11.9	417	952
	Sep.	42	32.8	4.9	1.9	87	1.4	170.3	11.8	215	927
	Oct.	40.1	41.3	2.8	1.4	49	2.3	189	15.8	217	785
	Nov.	36.5	31.7	1.9	0.8	58	6.4	175.1	10.2	165	658
	Dec.	29.2	26.9	1.2	0.6	51	7.7	172	-	210	1164
1994		416.2	502.7	48.6	18	1288	43.4	1923	88.1	4754	9393
1995	Jan.	18.9	24.5	1	0.5	32	5.8	138.8	-	96	881
	Feb.	16.6	23.9	1	0.6	29	3.8	122.3	-	111	838
	Mar.	22.4	36.4	1.9	0.8	62.0	6.9	124.0	2.5	158.0	816.0
	Apr.	19.6	27.4	2.2	0.9	60.0	3.1	114.3	8.4	228.0	756.0
	May	18.4	28.2	4.1	1.4	75.0	1.8	107.9	0.4	278.0	934.0
	Jun.	18.6	27.5	5.6	1.6	88.0	2.9	81.8	-	375.0	1,389.0
	Jul.	23.1	28.8	4.6	1.4	110.0	0.7	122.2	8.7	357.0	559.0
	Aug.	25.2	25.2	3.8	1.2	136.0	0.7	113.8	16.0	394.0	1,002.0
	Sep.	28.3	25.2	2.9	1.0	66.0	0.4	130.9	10.1	187.0	1,311.0
	Oct.	29.2	31.9	1.7	0.8	112.0	3.0	131.3	18.9	144.0	1,218.0
	Nov.	26.8	24.9	0.6	0.6	106.0	6.7	154.0	22.3	118.0	1,330.0
	Dec.	22.0	31.3	0.6	0.6	51.0	7.0	163.7	14.8	157.0	1,130.0
1995		278.4	335.8	30.1	11.6	947.0	43.2	1,509.6	107.7	2,606.0	12,880.0

The cattle and poultry population

(1) In all categories of farm

Period	Thousand heads at end of period						
	Cattle	including cows	Sheeps and goats	Pigs	Horses	Poultry of all ages	
1980	8693	2985	35208	3093	1300	48092	
1985	9165	3086	35485	2968	1455	55436	
1986	9528	3161	36408	3221	1533	57542	
1987	9672	3207	36388	3237	1540	57667	
1988	9752	3273	36498	3188	1581	58436	
1989	9818	3327	36223	3262	1619	59286	
1990	9757	3368	35661	3224	1626	59899	
1991	9592	3490	34556	2976	1666	59932	
1992	9576	3623	34420	2591	1704	52733	
1993	9347	3687	34208	2445	1777	52591	
1994	Jun.	8982	3655	35536	2182	1756	48144
	Sep.	8465	3463	29028	2198	1686	46870
	Dec.	7835	3356	24016	1927	1530	38239
1995	Mar.	7612	3274	22957	1757	1454	28731
	Jun.	7537	3224	28089	1643	1598	30210
	Sep.	7068	3121	22693	1607	1538	27863
	Dec.	6760	2975	18507	1522	1493	19118

(2) In collective farms, state farms, interbranch farms and other agricultural production enterprises

Period	Thousand heads at end of period						
	Cattle	including cows	Sheeps and goats	Pigs	Horses	Poultry of all ages	
1980	6554	1828	31516	2420	994	28094	
1985	6751	1841	30983	2439	1076	36326	
1986	6965	1857	31502	2658	1114	38439	
1987	7028	1844	31262	2683	1111	38588	
1988	6949	1832	31014	2591	1125	38840	
1989	6896	1816	30225	2637	1126	39495	
1990	6740	1788	29249	2559	1115	39902	
1991	6364	1759	27173	2272	1087	40264	
1992	6055	1676	25874	1866	1038	33254	
1993	5456	1603	24857	1626	1033	31723	
1994	Jun.	5045	1537	25256	1306	979	28776
	Sep.	4648	1443	19909	1292	938	28022
	Dec.	4204	1361	16236	1140	861	22643
1995	Mar.	4036	1298	14900	1042	771	20265
	Jun.	3832	1225	17942	890	811	19149
	Sep.	3486	1136	13711	851	767	16628
	Dec.	3107	1047	10713	691	679	11805

(3)

In peasant farms and farms

Period	Cattle	including cows	Sheeps and goats	Pigs	Horses	Poultry of all ages	
			In peasant farms and farmers				
1990	5	2	51	1	1	2	
1991	33	15	432	6	10	9	
1992	69	30	778	12	29	429	
1993	88	39	850	14	36	38588	
1994	97	46	692	11	39	38840	
1995	154	71	1093	16	77	39495	
			in farmer's personal subsidiary				
1980	2139	1157	3691	673	306	19997	
1985	2414	1246	4501	529	380	19110	
1986	2563	1304	4906	563	419	19103	
1987	2644	1363	5126	554	429	19079	
1988	2803	1441	5484	597	456	19596	
1989	2922	1511	5997	625	492	19791	
1990	3012	1578	6361	664	510	19995	
1991	3195	1716	6951	698	569	19659	
1992	3454	1917	7767	713	636	19480	
1993	3803	2045	8523	805	709	20345	
1994	Mar.	3712	2044	8580	787	700	17512
	Jun.	3937	2118	10280	876	777	19368
	Sep.	3817	2020	9119	906	748	18848
	Dec.	3534	1945	7089	776	630	15472
1995	Mar.	3576	1976	8057	715	683	8466
	Jun.	3705	1999	10147	753	787	11062
	Sep.	3582	1985	8982	756	771	11235
	Dec.	3499	1857	6701	815	737	7197

Purchase of agricultural production

Period	Cattle and poultry thousand metric tons (in live weight)	Milk thousand metric tons	Eggs million units	Wool thousand metric tons	Cereals million metric tons	Potatoes thousand metric tons	Vegetable thousand metric tons	End of period	
								Fruit, berries thousand metric tons	Raw cotton thousand metric tons
1980	1,293.9	2,385.7	1,929.3	54.2	16.4	635.8	755.5	89.9	357.9
1985	1,375.1	2,651.5	2,262.0	53.3	13.9	682.2	773.3	57.5	385.2
1986	1,686.1	2,858.2	2,436.4	56.9	16.7	641.4	848.2	145.1	332.9
1987	1,738.3	2,966.2	2,541.2	57.0	14.6	680.7	837.6	71.9	312.0
1988	1,825.8	3,114.9	2,581.7	59.7	9.8	629.8	898.9	185.3	325.1
1989	1,895.0	3,269.5	2,544.2	61.4	5.9	413.0	798.2	15.1	315.3
1990	1,844.4	3,294.1	2,573.1	60.2	14.8	571.1	676.1	118.4	324.1
1991	1,529.8	2,924.9	2,355.7	58.9	3.4	358.8	454.1	28.9	298.3
1992	917.1	2,132.9	1,660.4	42.3	13.1	261.3	389.0	54.0	245.7
1993	792.9	2,068.7	1,526.6	36.8	6.9	137.9	156.9	35.6	197.6
1994	413.8	1,395.6	1,061.8	5.4	4.1	54.7	81.8	12.5	205.5
1995	128.0	622.7	396.6	6.6	0.8	4.2	22.3	7.1	-

Plant-growing production

Period	Cereal	Wheat	Rice	Barley	Oats	Soybean	Potatoes	Tobacco	
1980	25,938.0	17,547.7	563.6	6,036.5	6036.3	649.8	8.8	2,238.4	10.4
1985	22,693.7	14,191.1	620.2	5,954.8	5954.8	539.0	17.4	2,197.0	9.0
1986	26,561.8	16,743.1	585.9	7,895.2	7895.2	615.7	34.6	2,136.3	8.8
1987	25,721.0	16,188.4	605.6	6,928.7	6928.7	458.9	45.2	2,065.9	7.9
1988	28,978.3	12,161.7	626.1	5,850.6	5850.6	344.8	48.8	2,260.3	7.1
1989	18,797.2	18,783.6	554.7	5,389.4	5389.4	251.0	32.9	1,783.4	4.7
1990	28,487.7	16,196.8	578.7	8,588.2	8588.2	610.6	32.9	2,324.3	4.6
1991	11,991.9	6,888.8	521.0	3,885.1	3885.1	238.9	16.4	2,143.2	3.9
1992	29,771.7	18,284.6	466.9	8,518.8	8518.8	727.3	11.8	2,569.7	3.7
1993	21,631.0	11,585.4	403.1	7,148.0	7148.6	801.5	5.8	2,296.3	4.1
1994	16,454.1	9,052.2	282.7	5,496.9	5496.9	821.7	5.5	2,848.2	2.8
1995	9,585.5	6,498.4	183.4	2,288.1	2288.1	249.8	3.7	1719.8	1.7

Appendix-2.1.2 Geographical distribution of foreign trade

Geographic distribution of foreign trade

Name of Contry	1992r		1994r		1995 (Jan. -Nov.) r	
	Export	Import	Export	Import	Export	Import
	Millions of US Dollars					
Total	1,489.3	468.8	3,230.7	3,493.8	4,559.3	3,466.7
Australia	0.5	29.8	0.2	7.5	0.1	2.9
Austria	50.2		12.5	39.5	12.0	50.8
Azerbaijan			46.3	11.7	20	21.9
Armenia			1	1.3	0.2	2.5
Arab Emirates				4.4	0.2	4.5
Algeria						
Anguilla						
Angola						
Argenglina						
Afganistan	3.0	2.4	1.8	0.3	2.8	0.1
Bahamas					51.6	
Bangladesh						4.2
Belgium	9.0	0.1	6.4	12.8	14.5	6.8
Bermudas						
Belarussia			43.9	64.1	55.6	71.5
Bulgaria	16.8	1.7	12.3	16.5	5.4	7.1
Brazil				4.7		0.1
Balican						
Britain			3.7			
Great Britain	91.5	18.6	64.9	66.4	96.8	75.6
Hungary	19.4	27.1	48.9	31.2	8.1	20.5
Vietnam			2.8		2.7	
Guatemala					2.1	
Guyana		0.0				
Ghana						
Guinea						
Germany	119.3	18.4	73.2	293.6	160.0	192.4
Greece	0.3	0.8	3.0	4.6	2.0	2.1
Georgia			1.3	2.9	0.2	2.2
Denmark	3.0		0.1	4.9		2.5
Egypt				1.4	0.2	0.3
Israel	0.0	10.0		26.4	0.1	13.2
India	0.7	9.2	7.3	33.5	0.5	13.4
Indonesia				2.0		
Jordan	0.0					
Iran	0.1	0.1	11.8	10.6	45.8	13.1
Ireland	0.2		1.9	7.0	71.6	7.7
Iceland						0.2
Spain	1.3		3.2	6.1	1.4	6.3
Italy	37.7	2.3	42.3	60.7	114.6	29.1
Yemen						
Canada	0.2	1.0	12.9	14.9	1.6	7.9
Cyprus	32.6		1.4	2.8	10.5	4.1
China	228.7	204.6	148.9	69.8	279.8	32.7
Korea of DPR	16.6		3.6	0.7	0.9	0.1
Cuba	18.9	29.3		9.3	0.2	
Kyrgyzstan			59.8	91.1	70.6	27.2
Latvia			14.5	10.3	33.1	11.1
Liechtenstein	23.3		8.0	5.6	8.2	0.9
Lithuania			13.4	16.5	109.8	17
Luxembourg	28.5		7.9	0.3	7.2	1.5

Geographic distribution of foreign trade

Name of Contry	1992r		1994r		1995 (Jan. - Nov.) r	
	Export	Import	Export	Import	Export	Import
Millions of US Dollars						
Moldova				8.1	2.3	3.8
Mouritania					5.3	
Madagascar						
Malaysia					3.1	
Morocco			0.2		3.3	
Monaco			3.6			22.4
Mexico			2.3			
Moldova			3.2			
Mongoria	3.1	0.3	1.5	22.4	2.3	60.2
Nigeria						
Netherland	51.8	0.5	247.8	31.1	468.5	29.6
New Zealand				1.7		
Norway	2.8		2.4	1.6	1.2	0.1
Oman	70.6		26.5			
Pakistan			4.8	2.2	2.8	1.8
Panama	2.2				2.9	0.6
Peru					0.3	
Pitcean						
Poland	48.0	7.9	55.7	23.4	36.1	19.4
Portgul	1.4			2.5		0.1
Roumania	4.9	4.9	10.9	16.9	0.4	2.2
Russian Federation			1438.3	1262.3	1919.5	1660
Saudi Arabia						
Singapore	0.1			14.0	1.1	12.7
Syria			0.1	0.7		
Slovakia			13.7	4.2	18.5	6.7
USA	93.6	5.9	75.0	109.3	44.2	69.8
Hong Kong	5.7	0.6	3.9	7.9	2.6	4.6
Taiwan			4.6	1.0	19.3	0.7
Thailand	3.7	0.7	16.4	1.1	39.8	0.3
Tajikistan			9.5	16.2	38.4	11.1
Turkmenistan			25.3	262.5	48.7	224.6
Turkey	16.2	3.5	49.1	87.2	66.5	117.0
Uzbekistan			117.2	269.4	149.9	251.3
Ukrains			127.9	119.8	98	78.6
Uganda						
Philippine	7.2		0.4		0.4	
Finland	42.7	25.0	16.6	15.9	45.9	24.2
France	18.5	6.6	7.2	30.6	11.3	22.6
Fren. Sout. (TF)						
Czechia	62.9	2.6	70.4	29.4	23.5	21.5
Chile	0.3			2.5		36.2
Switzerland	100.9	13.7	130.0	65.3	170.8	56.6
Sweden	175.1	9.9	10.0	11.7	2.8	14.2
SAR			0.5	0.7	1.1	0.5
Equador		0.1				
Yugoslavia	13.9	26.9	0.7	4.9		1.9
Korea	12.6	0.2	60.0	67.0	81.3	40.8
Estonia			3.6	3.4	15.6	5.3
Japan	48.4	4.1	27.1	53.2	34.1	8.1
Other Countries	1.0		5.0	8.3	7.1	3.7

Appendix-2.1.3 Main products of exports and imports

Commodities	1992r	1994r	1995r Jan-Nov
Live animals and animal products	4.2	36.8	91.8
Vegetable products	5.6	118.8	370.0
Animal or vegetable fats and oils and their cleavage products prepared edible fats; animal or vegetable waxes	-	0.6	2.2
Prepared foodstuffs; beverages, spirits and vinegar; tobacco and manufactured tobacco substitute	7.0	43.5	50.5
Mineral products	602.5	1090.5	1237.3
Products of the chemical and allied industries	243.2	319.9	427.0
Plastics and articles thereof; rubber and articles thereof	6.1	31.4	49.4
Raw hides and skins, leather, fur skins and articles thereof; saddlery and harness; travel goods, handbags and similar containers; articles of animal gut	4.2	18.5	34.8
Wood and articles of wood; wood charcoal; cork and articles of cork; manufactures of straw, of esparto or of other plating materials; basketware and wickerwork.	0.5	0.4	1.7
Pulp of wood or of other fibrous cellulosic material waste and scrap of paper or paperboard and articles thereof	1.3	5.8	3.1
Textiles and textile articles	19.7	99.2	110.3
Footwear, headwear, umbrellas, walking-sticks, seatsticks, whips, ridingcrops and parts thereof; prepared feathers and articles made the rewith; artificial flowers; articles of human hair	0.4	3.5	2.9
Articles of stone, plaster, cement, asbestos, mica or similar materials; ceramic products; glass and glassware	0.3	18.3	17.8

Commodities	1992r	1994r	1995r Jan-Nov
Natural and cultured pearls;precious or semiprecious stones, base metals, coveroneself and clad with precious metal and articles thereof; imitation jewellery;coin	-	1.5	0.4
Base metals and articles of base metal	565.5	1296.1	1939.9
Machines and mechanical appliencs; electrical equipment;parts thereof; sound recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles	12.8	88.2	129.0
Vehicles, aircraft, vessels and associated transport, equipment	15.9	30.8	51.5
Optical, photographic, cinematographic, measuring checking, precision, medical of surgical instruments and apparatus; clocks and watches; musical instruments;parts and accessories thereof	-	5.4	9.7
Miscellaneous manufactured articles	0.1	9.2	6.6
Works of art, collectors pieces, and antiques	-	-	-
Weapons and ammunition	-	12.3	23.4
Export total	1489.3	3230.7	4559.3

Commodities	1992r	1994r	1995r Jan-Nov
Live animals and animal products	29.8	27.4	26.7
Vegetable products	124.5	72.1	59.9
Animal or vegetable fats and oils and their cleavage products prepared edible fats; animal or vegetable waxes	10.4	29.9	17.3
Prepared foodstuffs; beverages, spirits and vinegar; tobacco and manufactured tobacco substitute	145.1	229.4	264.0
Mineral products	-	1,037.1	1,002.9
Products of the chemical and allied industries	33.7	272.5	302.8
Plastics and articles thereof; rubber and articles thereof	7.1	76.4	113.9
Raw hides and skins, leather, fur skins and articles thereof; saddlery and harness; travel goods, handbags and similar containers; articles of animal gut	3.8	9.0	4.2
Wood and articles of wood; wood charcoal; cork and articles of cork; manufactures of straw, of esparto or of other plating materials; basketware and wickerwork.	-	37.2	58.1
Pulp of wood or of other fibrous cellulosic material waste and scrap of paper or paperboard and articles thereof	1.5	46.3	84.1
Textiles and textile articles	22.0	165.3	88.0
Footwear, headwear, umbrellas, walking-sticks, seatsticks, whips, ridingcrops and parts thereof; prepared leathers and articles made the rewith; artificial flowers; articles of human hair	10.8	74.1	32.3
Articles of stone, plaster, cement, asbestos, mica or similar materials; ceramic products; glass and glassware	0.4	40.1	59.4

Commodities	1992r	1994r	1995r Jan-Nov
Natural and cultured pearls;precious or semiprecious stones, base metals, coveroneself and clad with precious metal and articles thereof; imitation jewelry;coin	-	0.6	5.2
Base metals and articles of base metal	11.0	263.6	274.1
Machines and mechanical appliances; electrical equipment;parts thereof; sound recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles	49.3	719.7	709.0
Vehicles, aircraft, vessels and associated transport, equipment	9.6	274.0	243.3
Optical, photographic, cinematographic, measuring checking, precision, medical of surgical instruments and apparatus; clocks and watches; musical instruments;parts and accessories thereof	1.4	56.7	72.3
Miscellaneous manufactured articles	8.3	59.7	47.8
Works of art, collectors pieces, and antiques	-	-	-
Weapons and ammunition	-	2.7	1.4
Import total	468.8	3,493.8	3,466.7

Appendix-2.1.4 Wages in national economy

2.2(1) Wages in national economy - Monthly average in roubles

Period	Grand total	Sectors of material production										
		Total	Industry	Construction	Agriculture	Forestry	Transport	Communication	Trade and public catering	Supply, marketing and purchase	Information, computer services	
1980	167	178	188	206	167	114	206	134	120	155	128	
1985	197	201	212	234	198	121	221	145	127	168	124	
1986	193	208	218	240	211	123	226	147	130	170	143	
1987	199	214	224	250	217	127	235	156	130	177	147	
1988	215	231	245	276	225	155	255	185	139	188	164	
1989	234	253	267	305	244	181	273	198	150	209	205	
1990	265	287	296	338	292	182	303	228	203	271	241	
1991	441	467	534	536	414	315	493	309	335	436	375	
1992	4625	5100	6161	5727	4834	2455	5797	3726	2782	4975	3152	
1993	128	142	171	170	181	75	182	120	89	154	134	
1994	Jan.	331	368	511	440	181	194	507	384	260	388	310
	Feb.	370	402	540	491	201	231	551	420	326	465	406
	Mar.	475	522	734	663	257	370	639	522	392	598	582
	Apr.	807	872	1231	1118	431	477	1010	944	603	983	963
	May	1029	1114	1549	1528	571	612	1298	1170	797	1269	1262
	Jun.	1357	1509	2126	2231	756	714	1742	1402	1012	1541	1401
	Jul.	1726	1969	2869	2857	948	844	2392	1719	1168	1817	1740
	Aug.	1971	2271	3284	3361	1083	909	2818	2202	1304	2193	2070
	Sep.	2451	2850	3984	3979	1593	1110	3537	2699	1496	3017	2485
	Oct.	3091	3575	4866	4927	2078	1488	4524	3327	1996	4092	3373
	Nov.	3360	3931	5848	5345	1809	1450	5000	3329	2110	4126	3018
	Dec.	4241	4988	7211	6669	2423	2128	6034	4012	2615	4931	3822
1995	Jan.	3571	4064	6179	5423	1579	1827	5035	3673	2377	3871	2286
	Feb.	3650	4103	6154	5700	1579	1883	4974	3772	2431	4111	3033
	Mar.	4162	4656	6899	6133	1692	2336	6095	4107	2697	4629	4277
	Apr.	4282	4803	7214	6536	1821	2076	6079	4505	2814	4343	4156
	May	4613	5255	7452	6711	2309	2023	6011	5087	3000	4543	4685
	Jun.	4830	5402	7476	7356	2581	3020	6058	4681	3185	4884	4969
	Jul.	5185	5861	7998	7971	2676	2597	6631	5267	3382	5352	5129
	Aug.	5352	6248	8293	8637	2573	2564	7100	6196	3353	5674	5814
	Sep.	5729	6721	8564	9177	3367	3179	7650	7070	3642	6367	6175
	Oct.	5963	6970	8933	9231	3092	3202	8256	8012	3814	6894	7365
	Nov.	6194	7415	9746	9837	2898	3008	8943	7400	3895	6992	6765

Note: Data for January-October, 1993 converted to Tenge according to exchange rate (500:1) at the moment of introduction of Tenge of national currency starting from November, 1993 data are computed in Tenge.

Period	Branches of non-productive sectors								
	Total	Housing Municipal service non-pro- ductiv form of insurance every day services	Health, physical culture and social insurance	Education	Culture and art	Science and science- tic services	Geology, explora- tion of natural resources geodesic and hydrome- teorology service	Credit and state insurance	Manage- ment apparatus
1988	131	130	121	125	186	183	-	144	149
1985	141	142	125	139	109	203	-	158	155
1986	145	144	127	144	111	213	-	169	161
1987	153	148	134	156	114	221	-	173	173
1988	164	164	141	162	121	261	-	176	197
1989	178	178	158	172	132	293	-	202	228
1990	203	199	178	182	163	320	-	354	335
1991	356	337	352	319	288	476	-	743	474
1992	2853	3283	2199	2484	2007	4459	-	3340	4665
1993	92	102	66	91	70	119	-	288	139
1994									
Jan.	239	320	165	196	170	261	291	924	374
Feb.	293	410	201	263	210	363	341	859	393
Mar.	364	555	242	294	280	524	549	1055	599
Apr.	674	823	512	634	521	804	809	1391	979
May	796	1091	567	706	597	995	1277	2038	1191
Jun.	947	1380	625	802	643	1302	1732	2896	1440
Jul.	1096	1637	844	785	753	1558	2177	4001	1708
Aug.	1195	1918	882	829	806	1641	2402	4169	2019
Sep.	1412	2467	946	1028	925	1782	3024	4898	2247
Oct.	1870	3141	1239	1389	1170	2405	3461	6799	2965
Nov.	1966	3348	1256	1493	1221	2518	3700	7487	2931
Dec.	2633	4263	1695	1987	1490	3462	4386	11410	3518
1995									
Jan.	2427	3700	1781	2001	1493	2556	4031	8207	2990
Feb.	2493	3832	1847	2082	1576	2555	3753	8261	3025
Mar.	3035	4230	2332	2597	2052	3199	4602	9108	3526
Apr.	3085	4444	2345	2710	2072	3365	4913	8178	3838
May	3259	4341	2524	2837	2160	3950	5433	9521	4168
Jun.	3543	5003	2680	3091	2295	4432	6247	9711	4401
Jul.	3743	5073	2829	3232	2345	4867	6767	11583	4502
Aug.	3552	5354	2737	2787	2360	4387	7360	11372	4658
Sep.	3748	5642	2660	2981	2520	5018	7690	11649	4915
Oct.	4011	5921	3020	3254	2634	5347	8315	12385	5410
Nov.	3951	5899	2952	3237	2218	4923	7911	12731	4985

Note: Data for January-October, 1993 converted to tenga according to exchange rate (500:1) at the moment of introduction of tenga of national currency starting from November, 1993 data are computed in tenga.

Appendix-2.1.5 Transportation of railway, bus and civil aviation

Number of passengers carried by railway transportation

(thousands)

State	1990	1991	1992	1993	1994	1995
Total Kazakhstan	38261.4	40002.0	39734.8	44034.3	41118.9	33748.4
Akmola	2698.5	3079.7	3270.6	3918.5	3581.1	2939.2
Aktjubinsk	1570.0	1607.8	1341.3	1241.9	1300.3	1067.2
Almaty	2127.5	2244.8	2389.9	2730.6	2553.4	2095.7
Atyrau	1397.7	1406.8	1178.5	1023.2	919.3	754.5
East Kazakhstan	1399.0	1365.9	1435.0	1475.3	1313.2	1077.8
Zhambul	1197.5	1418.1	1264.2	1252.2	861.9	707.4
Zhezkazgan	1048.3	1182.2	1059.5	1110.2	1003.7	823.8
West Kazakhstan	872.5	885.1	883.7	907.9	694.8	570.3
Karaganda	5464.5	4870.6	5053.4	4474.3	4572.2	3752.6
Kzyl-Orda	1187.5	1307.3	1005.8	779.6	983.8	807.5
Kokchetau	1203.3	1263.2	1232.6	1188.6	1487.3	1220.7
Kustanay	1477.2	2160.7	2244.4	2043.7	2156.5	1770.0
Mangistau	559.8	755.8	779.9	618.8	670.4	550.2
Pavlodar	9241.5	9473.2	9806.4	13036.9	12946.6	10625.9
North Kazakhstan	2606.9	2741.4	2619.8	3703.4	2462.2	2020.9
Semipalatinsk	1531.7	1540.1	1341.3	1174.3	1024.8	841.1
Taldykorgen	547.5	561.2	529.2	511.6	416.0	341.4
Turgai	668.8	465.4	404.2	635.6	488.3	400.8
South Kazakhstan	1461.7	1672.7	1620.1	1857.1	1348.6	1106.9
Russia (Orenbourg)			275.0	350.6	216.4	177.6
Kirgistan/Altai Krai					110.1	90.4
					8.0	6.6

Source: Committee of Statistics and Analysis

Note : Traffic volumes by region in 1995 are estimated distributing the total to each region assuming relative weight of the respective region in 1994 is constant.

Number of passengers carried by bus transportation for common use

Thousands

State	1990	1991	1992	1993	1994	1995
Total Kazakhstan	3443714.0	3191673.4	2620995.3	2237033.0	1622900.0	1447113.0
Akmola	129577.0	108434.2	90552.4	67181.0	52900.0	36763.0
Aktjubinsk	88359.0	76844.3	64152.2	50010.0	42000.0	35478.0
Almaty	102521.0	90911.0	67468.5	47368.0	38700.0	25906.0
Atyrau	66933.0	59641.4	37804.2	21509.0	10500.0	7356.0
East Kazakhstan	307626.0	292484.6	242988.2	185232.0	104400.0	91361.0
Zhambul	232693.0	220948.0	199803.0	162700.0	119400.0	86082.0
Zhezkazgan	109378.0	103590.6	63414.2	70844.0	80000.0	22736.0
West Kazakhstan	92094.0	86679.3	69661.1	65609.0	53800.0	58174.0
Karaganda	460135.0	435174.2	361267.1	325482.0	258900.0	190488.0
Kzyl-Orda	102226.0	97544.1	100644.6	72564.0	45900.0	34468.0
Kokchetau	95248.0	84873.1	57788.2	44252.0	34600.0	30178.0
Kustanay	198761.0	179529.2	157616.8	116821.0	70800.0	53288.0
Mangistau	73955.0	70899.4	58590.4	33760.0	18000.0	79900.0
Pavlodar	191319.0	188217.0	186789.0	173101.0	113200.0	124425.0
North Kazakhstan	60946.0	55205.5	41021.8	34460.0	20100.0	11504.0
Semipalatinsk	174603.0	163486.1	147421.4	101485.0	76500.0	78232.0
Taldykorgen	125584.0	120814.9	113983.0	85123.0	47700.0	23293.0
Turgai	23615.0	19679.5	12208.2	10501.0	5900.0	3142.0
South Kazakhstan	288703.0	258611.0	173452.0	172240.0	112800.0	86765.0
Almaty City	501829.0	462205.0	363487.0	390273.0	314300.0	367574.0
Leninsk City	17609.0	15901.0	10882.0	6518.0	2500.0	-

Source: Committee of Statistics and Analysis

Number of passengers carried by bus transportation for common use
(thousands)

State	Total	Within city	Suburban	Inter-city	Intern'l in CIS	Intern'l exclud. CIS
Total Kazakhstan	1447113	1248543	150593	44626	3347	4
Akmola	36763	34876	1045	842	-	-
Aktyubinsk	35478	34874	221	250	133	-
Almaty	25906	9329	15099	1455	23	-
Atyrau	7356	5545	1389	414	8	-
East Kazakhstan	91361	86371	3969	975	46	-
Zhambul	86082	70594	12363	3125	-	-
Zhezkazgan	22736	19338	3323	75	-	-
West Kazakhstan	58174	33991	8340	13223	2620	-
Karaganda	190488	180304	9447	724	13	-
Kzyl-Orda	34468	15456	11392	7620	-	-
Kokchetau	30178	28637	897	609	35	-
Kustanay	53288	49792	2851	645	-	-
Mangistau	79900	45840	30742	3318	-	-
Pavlodar	124425	116974	5280	1950	221	-
North Kazakhstan	11504	10531	458	473	42	-
Semipalatinsk	78232	73549	3964	703	16	-
Taldykorgen	23293	11158	8244	3887	-	4
Turgai	3142	2886	202	54	-	-
South Kazakhstan	86765	54564	27745	4266	190	-
Almaty City	367574	363934	3622	18	-	-
Leninsk City	-	-	-	-	-	-

Source: Committee of Statistics and Analysis

Number of passengers carried by civil aviation

(thousands)

State	1990	1991	1992	1993	1994	1995
Total Kazakhstan	8558.8	7920.8	5171.9	3635.9	2293.7	2010.2
Akmola	423.2	380.4	202.3	135	74.7	70.9
Aktyubinsk	422	352.6	172.9	88.8	49.7	37.7
Almaty	155.9	134	110.6	92.3	30.9	4.8
Atyrau	524.1	429.1	276.9	161	101.2	84.5
East Kazakhstan	667.8	639.4	377.1	217	119.6	71.0
Zhambul	242.2	217.8	136.8	87	46.9	26.5
Zhezkazgan	283.3	267.7	184.6	234.5	76.4	56.0
West Kazakhstan	182.7	145.4	82	53.6	36.9	29.3
Karaganda	675.4	634	386.4	254.1	120	112.1
Kzyl-Orda	222.4	186.3	106.7	65.9	52.8	41.7
Kokchetau	201.2	200.2	134.6	88.5	36	26.2
Kustanay	409.5	394.7	250	158.7	55.1	51.2
Mangistau	487.9	447.9	333.3	241.1	131	129.6
Pavlodar	439.8	394.9	250	149.9	95.3	71.6
North Kazakhstan	142.7	119.2	71.7	41.1	18.2	8.3
Semipalatinsk	366.2	342.2	198.4	132.6	57.2	31.6
Taldykorgen	109.8	100.8	72.9	43.3	5.2	0.2
Turgai	175.9	140.4	81	47.3	19.1	8.9
South Kazakhstan	288.5	268.1	179.1	164.7	136.1	90.1
Almaty City	2138.3	2125.7	1564.6	1279.5	1031.4	1058.0
Leninsk City	-	-	-	-	-	-

Source: Committee of Statistics and Analysis

Appendix-2.3.9 A Data on Airport Civil Facilities at Ten Airports

Name of Airport : Akmola

Facilities		Description of Facilities					
1. Runway Strip	Length (m)	Width (m)					
	3,300	274					
2. Runway 04-22 non paved	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	2,500	49	CERA	28 /R/B/X/T	1963	6.0	AS
	2,500	100					
3. Taxiway No. 1 2 3	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
		18	Conc. slab	15 /R/B/X/T	1966	3.0	AS
		18	Conc. slab	15 /R/B/X/T	1966	3.0	AS
		18	Conc. slab	20 /R/B/X/T		3.0	AS
4. Apron Stand no. 1-3 4-5 6-9 10-17	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	Tu-154	3		16 /R/B/X/T			
	Tu-154	2		22 /F/C/Y/T			
	Tu-134, Yk-40	4		27 /R/B/X/T			
	Tu-134, Yk-40	8		23 /R/B/X/T			
5. Aviation Fuel Supply	Tank Storage Capacity 8,400 kl	Pipeline	Fuel Hydrant	1 x 3,000; 2 x 2,000; 2 x 700 kl tanks; daily consumption= 30 6 km pipeline from storage nearby rail station			
6. Access Road	Category	Number of Lanes	Public Transportation				
		2 lanes					
7. Public Utilities	Power supply --- 2 routes; capacity= 2,000KVA; generater Water supply --- from Akmola city; reservoir capacity= 2 x 600kl; daily consunrtion= 850kl Boiler plant --- 560Kcal/hr (for 2 plants) Telephone --- 120 lines (including 100 lines in the Airport)						
8. Remarks	Runway pavement: overlaid by asphalt.						

Name of Airport : Aktau

Facilities	Description of Facilities						
1. Runway Strip	Length (m)	Width (m)					
	3,450	205					
2. Runway 12-30 non paved	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	2,650	42	AS	36 /F/C/Y/T	1983	1.5	AS
	2,650	100					
3. Taxiway No. 1 2	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
					1983		
					under const.		
4. Apron Stand no. 1-5 6-11 12-19 20-43	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	Yk-40	5	AS	25 /F/C/Y/T	1983		
	Tu-154	6	AS	47 /F/C/Y/T	1983		
	An-24	8	AS	25 /F/C/Y/T	1983		
	An-2, Mi-8	24	AS	9 /F/C/Y/T	1983		
5. Aviation Fuel Supply	Tank Storage Capacity	Pipeline	Fuel Hydrant Installed				
6. Access Road	Category	Number of Lanes	Public Transportation				
		2 lanes					
7. Public Utilities	400 cu.m keroecyne tank Power supply --- 2 routes from Aktau city. Capacity= 600KVA; extension in plan Water supply --- from Aktau city (water source: Caspian Sea); ave. rate= 100cu m/hr; 3 reservoirs/ 1,000 cu.m each Bioler plant --- enough capacity even for facility expansion; made 1985; gas and keroecyne pipelines from the C						
8. Remarks	START cabins not in use because of control tower Runway overlay for strengthening in plan						

Name of Airport : Aktyubinsk

Facilities	Description of Facilities						
1. Runway Strip	Length (m)	Width (m)					
	3,900						
2. Runway 13-31 non paved	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	3,097 3,100	60 100	PAG-14	20/R/A/X/T	1967	6.0	AS
3. Taxiway No.	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	1	20	PAG-14			3.0	AS
	2	20	PAG-14			3.0	AS
	3	22	PAG-14			3.0	AS
4. Apron Stand no. 1-16 17-28 An-2	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	Il-86	2	PAG-14	26/R/A/X/T			
	Tu-154	4					
	Tu-134	2					
	Mi-6	2					
	Mi-2, Mi-6 An-2	12 22			15/R/B/X/T		
5. Aviation Fuel Supply	Tank Storage Capacity	Pipeline	Fuel Hydrant				
6. Access Road	Category	Number of Lanes	Public Transportation				
		2 lanes					
7. Public Utilities							
8. Remarks	Precast RC slabs in runway: size= 6m x 2m						

Name of Airport : Almaty

Facilities	Description of Facilities						
1. Runway Strip	Length (m)	Width (m)					
	5,200	180					
2. Runway 05-23	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	4,400	60	RC	39 /R/B/X/T	1,968		
3. Taxiway No. 1 2 3 7 8	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
				38 /R/C/X/T			
				66 /F/C/Z/T			
				24 /R/C/U/T			
4. Apron Stand no. 1-2 5-10 12-15 16-41 47-50 51-55 56-60 61-64	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
				20 /F/C/Y/T			
	Il-86	12		22 /R/C/X/T			
	Tu-154	14		45 /R/C/X/T			
	Il-62	2		27 /R/C/Y/T			
	Tu-134	15		62 /F/C/Y/T			
	Yk-40, An-24	17		18 /F/C/Y/T			
				34 /R/B/W/T			
5. Aviation Fuel Supply	Tank Storage Capacity	Pipeline	Fuel Hydrant				
6. Access Road	Category	Number of Lanes	Public Transportation				
		4 lanes					
7. Public Utilities	Power supply --- decentralized system Water supply --- from City; well for additional source Boiler plant --- one (another under const.)						
8. Remarks							

Name of Airport : Atyrau

Facilities	Description of Facilities						
1. Runway Strip	Length (m)	Width (m)					
	3,150	244					
2. Runway 14-32 non paved	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	2,350	44	CERA	17 /R/A/X/T	1974	3.0	AS
	2,350	100					
3. Taxiway No. 1 2	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	202	18	AS	17 /R/A/X/T		5.0	
	202	18	AS	18 /R/A/X/T			
4. Apron Stand no. 1-3 4-6 7-17 An-2 Helicopter	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
		3	AS	26 /R/A/X/T			
		3	AS	21 /R/A/X/T			
	Light, Heli	11	AS	11 F/CZAT			
	An-2	27	non paved				
	Helicopter	9					
5. Aviation Fuel Supply	Tank Storage Capacity	Pipeline	Fuel Hydrant				
6. Access Road	Category	Number of Lanes	Public Transportation				
		4 lanes					
7. Public Utilities	Power supply --- Water supply --- from City						
8. Remarks	Runway pavement: overlaid in 1986						

Name of Airport : Burunday

Facilities	Description of Facilities						
1. Runway Strip	Length (m)	Width (m)					
2. Runway	Length (m)	Width (m)	Pavement Type	Strength PCN	Year of Completion	Shoulder Width	Pavement
	1,135	35	AS	30 ton	1970		
3. Taxiway No.	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
4. Apron Stand no.	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
5. Aviation Fuel Supply	Tank Storage Capacity 6,000	Pipeline	Fuel Hydrant				
6. Access Road	Category	Number of Lanes	Public Transportation				
		2 lanes					
7. Public Utilities							
8. Remarks							

Name of Airport : Karaganda

Facilities	Description of Facilities						
1. Runway Strip	Length (m)	Width (m)					
	4,100						
2. Runway	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	3,300	60	RC	40 /R/A/X/T	1980	2.0 (variable)	AS
3. Taxiway No. 1 2	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
					1982		
					1980		
4. Apron Stand no. 1, 5 2-4 6-9 10-18 19-23	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	Il-86	2	Conc.	49 /R/B/X/T	1980		
	Tu-154	3					
	Tu-134, An-24	4	Conc.	19 /R/A/X/T	1980		
	Tu-154	9		23 /F/C/Y/T	1982		
	Tu-134, An-24	5		19 /R/A/X/T	1982		
5. Aviation Fuel Supply	Tank Storage Capacity 420kl	Pipeline	Fuel Hydrant	Tank: 70kl x 6 Fuel carried by truck from rail station			
6. Access Road	Category	Number of Lanes	Public Transportation				
		2 lanes					
7. Public Utilities	Power supply --- one route (another in plan) 110KV, capacity= 10KVA; 35KV distribution Water supply --- 200 cu.m/day "artizan well" Boiler plant --- 13 ton/hr						
8. Remarks	The well sometimes supplies for City						

Name of Airport : Kzyl-Orda

Facilities		Description of Facilities					
1. Runway Strip	Length (m)	Width (m)					
	3,200	142					
2. Runway 06-24 non paved	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	2,700	42	Asphalt	37 F/B/X/T	1986	5.0	Chip coat
	2,700	85					
3. Taxiway No.	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
4. Apron Stand no. 1, 5, 12 2 3, 4 6 - 11 13 - 44	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	An-24	3	AS	53 F/B/Y/T			
	Tu-154	1					
	Tu-134	2					
	Yk-40	6	AS	19 F/B/Y/T			
	An-2, Mi-8	32	AS	15 F/B/Z/T			
5. Aviation Fuel Supply	Tank Storage Capacity	Pipeline	Fuel Hydrant	4,000 kl at rail station			
	400 kl 2,000 kl	← Repairing					
6. Access Road	Category	Number of Lanes	Public Transportation				
		2 lanes					
7. Public Utilities	Power supply --- 2 routes from City; capacity= 2 x 35KVA Water Supply --- 2 deep wells (450m); capacity= 10 litre/sec. Boiler plant --- production 13 ton steam						
8. Remarks	Function as Almaty's alternative airport because of good weather condition.						

Name of Airport : Pavlodar

Facilities		Description of Facilities					
1. Runway Strip	Length (m)	Width (m)					
2. Runway	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	2,500	45	CERA	14 /R/A/X/T	1969	none	AC
3. Taxiway	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	No. 1	20		8 /R/A/X/T	1970	6.0	
	2-3, 5		non paved		1973		
4. Apron	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement
	Stand no. Main	Tu-154	2	Cone /As	9 /R/A/X/T	1970	
		Tu-134	2				
		Yk-42	1				
		Yk-40	6				
		Yk-40, An-24	6				
		L-410	4				
	Stand no. An-2	An-2	12	As.	4 /F/B/Z/T	1973	
5. Aviation Fuel Supply	Tank Storage Capacity 15,000 kl	Pipeline	Fuel Hydrant	consumption= 180-200 ton/day			
6. Access Road	Category	Number of Lanes	Public Transportation				
		4 lanes	Bus, taxi				
7. Public Utilities	Power supply --- 2 routes; capacity= 220KVA Water and heat supply --- from nearby power plant called "TETS-1" Telephone --- 50 lines						
8. Remarks	Runway pavement: overlaid by asphalt.						

Name of Airport : Uralsk

Facilities		Description of Facilities						
1. Runway Strip	Length (m)	Width (m)						
	3,200	242						
2. Runway 04-22 non paved	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement	
	2,400	42	RC	15 /R/A/X/U	1972	1.5	AC	
3. Taxiway No. 1	Length (m)	Width (m)	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement	
				19 /R/B/X/T	1972			
4. Apron Apron Stand no. A B B A (exten.)	Aircraft Type	No. of Stands	Pavement Type	PCN	Year of Completion	Shoulder Width	Pavement	
	An-2, L-410			15 /F/C/Y/T				
	Yk-40	4		15 /F/C/Y/T				
	An-2			9 /F/C/Y/T				
				15 /R/A/X/T				
5. Aviation Fuel Supply	Tank Storage Capacity	Pipeline	Fuel Hydrant					
6. Access Road	Category	Number of Lanes	Public Transportation					
	III	2 lanes	9.0					
7. Public Utilities	Power supply --- Water supply --- 3 wells (200cu.m/day; 150cu.m/day x 2) Boiler plant --- installed							
8. Remarks	Pavement maintenance work: done in 1995 - summer							

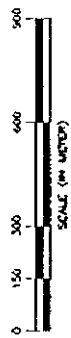
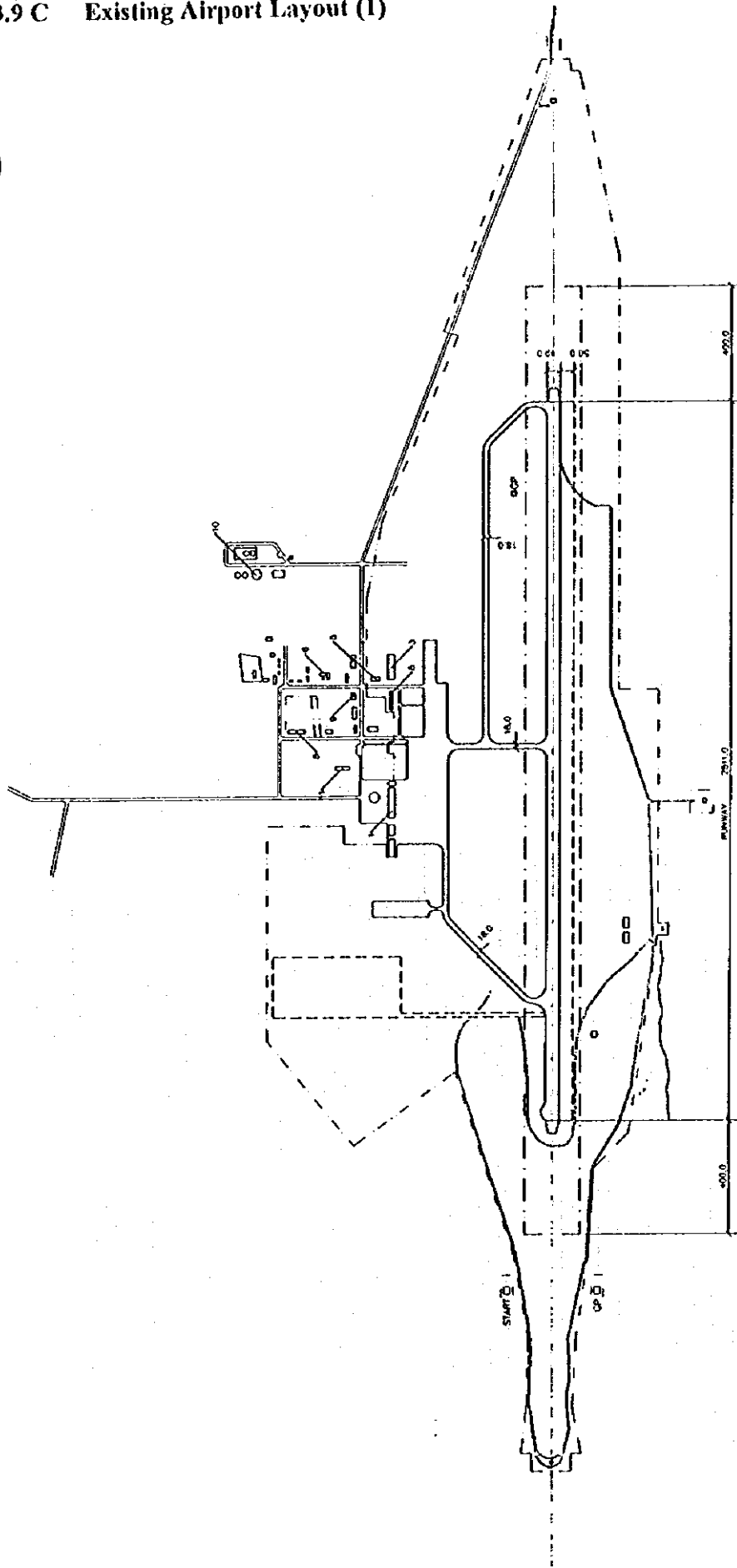
Appendix-2.3.9 B Floor Areas for the Existing Passenger Terminal Buildings

	DOM/CIS TERMINAL FLOOR AREA IN M2				OTHERS
	1F	2F	3F	TOTAL	
KZYL-ORDA	Approx. 200			Approx. 200	
AKTAU	Approx. 1,596	Approx. 514		Approx. 2,110	INT. 1,536m2
ATYRAU	2,868	1,308	3F 155 4F 155	4,486	
URALSK	1,979	1,300	BF 344 3F 120 4F 120	Approx. 3,863	Exist INT. floor area 5000m2(Approximate)
AKTYUBINSK	2,976	1,244		4,220	
AKMOLA	1,944	1,164		3,108	Proposed INT. total floor area 15,143m2
KARAGANDA	14,707	14,292	5,367	34,366	
POVLADOR	1,976	1,293		3,269	
ALMATY	6,552	4,915		11,467	
BURUNDAY	1,501			1,501	

Notes:

- 1) In the tables above, the figures for the Kzyl-Orda, Aktau, and Uralsk are approximations since the drawings could not be obtained at these airports.
- 2) All other floor areas were calculated upon the measurements taken from the copies of the drawings. The copies were made at the site with the copying machine carried with the Study Team on this trip. These small copies were patched together to make a coherent set of drawings.

Appendix-2.3.9 C Existing Airport Layout (1)



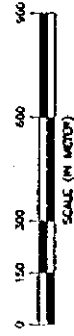
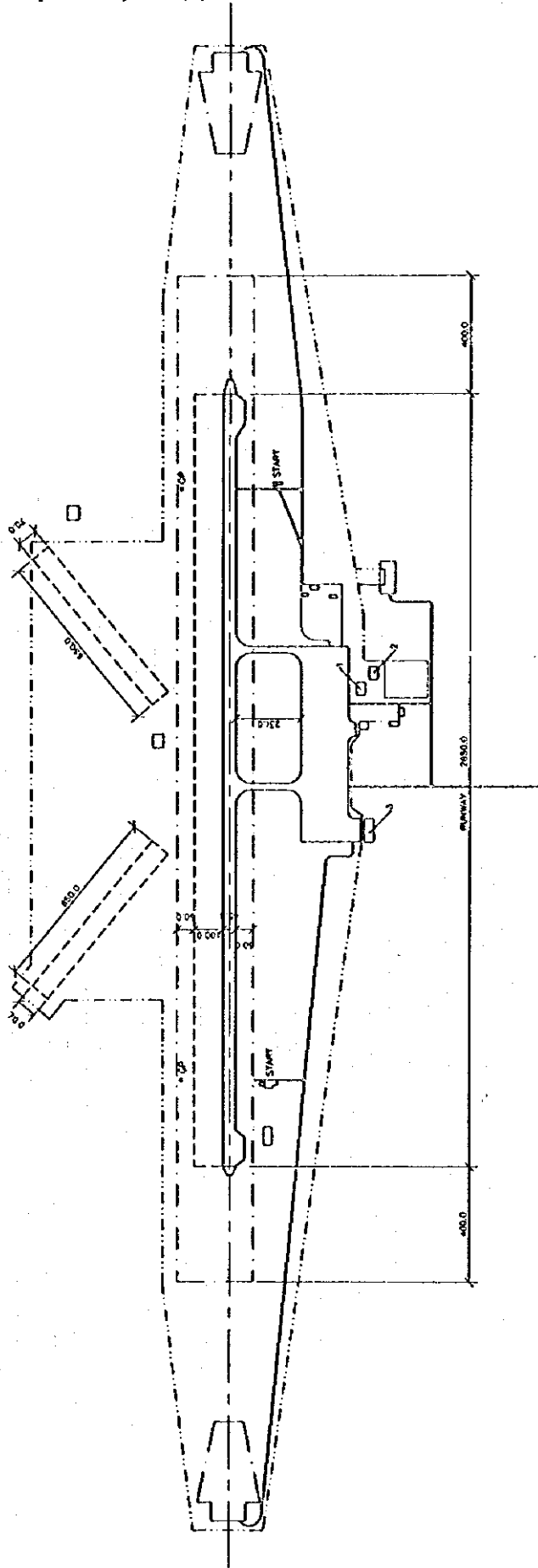
BASIC DATA TABLE	
APPROVAL CLASS	04 / 22
APPROVAL STATUS	INSTANT RUNWAY
APPROVAL REF. ELEVATION	353 m
APPROVAL REF. POINT (APP) COORDINATES	N 5101.6' E 71726.3'
APPROVAL REF. SETUP	24.5, AN09 PBRN, P004
APPROVAL DIRECTION	04 / 22
PAVEMENT STRENGTH	20/18/17/7
NAVIGATION AIDS	MLS, AN09 PBRN, P004 ALS, RWYLN 14.5 km
DISTANCE FROM CITY	

MAJOR BUILDINGS			
No.	NAME OF BUILDING	No.	NAME OF BUILDING
1	PASSENGER TERMINAL	7	BOILER HOUSE
2	ADMINISTRATOR BUILDING	8	MAIN POWER HOUSE
3	OPERATOR'S BUILDING	9	FIRE STATION
4	CONTROL TOWER	10	FUEL FARM
5	WOMEN SHOWER	11	MOTEL
6	CARGO TERMINAL	12	METEO STATION

LEGEND	
[Symbol]	ROAD
[Symbol]	APPROX BOUNDARY
[Symbol]	RUNWAY STRIP
[Symbol]	CROSSED MOVEMENT AREA

APPROVED BY :	THE REPUBLIC OF KAZAKHSTAN
CHECKED BY :	MINISTRY OF TRANSPORT AND COMMUNICATIONS
DRAWN BY :	AKMOLA AIRPORT
DRAWING NO. :	EXISTING AIRPORT LAYOUT
SCALE :	THE STUDY ON AIR TRANSPORT DEVELOPMENT
DATE :	JAPAN INTERNATIONAL COOPERATION AGENCY
	Sept. 1998

Appendix-2.3.9 C Existing Airport Layout (2)



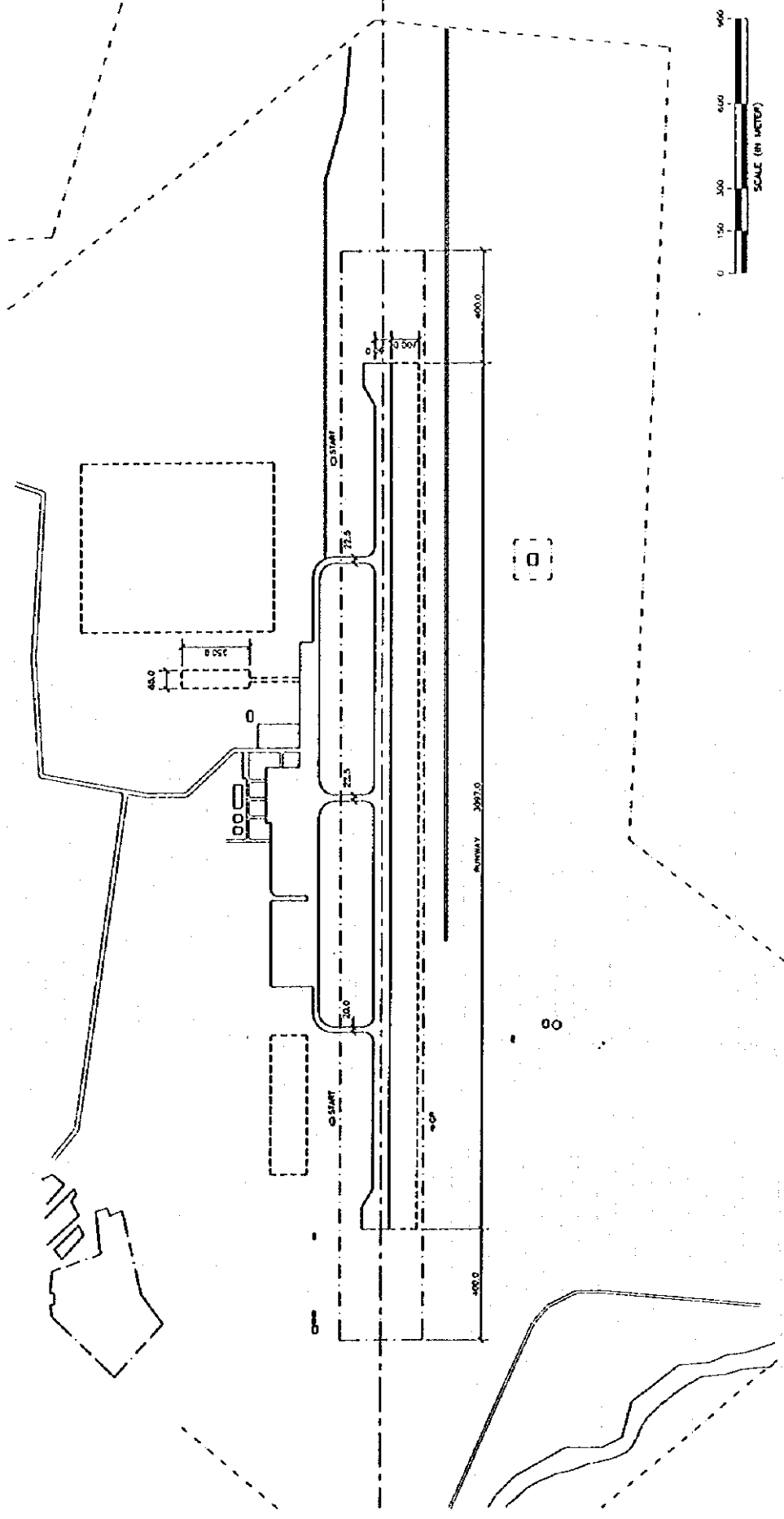
BASIC DATA TABLE			
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CHECKED BY :	MINISTRY OF TRANSPORT AND COMMUNICATIONS	CHECKED BY :	
DRAWING TITLE	AKTAU AIRPORT	DRAWING No.:	
EXISTING AIRPORT LAYOUT		DATE:	
THE STUDY ON AIR TRANSPORT DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN JAPAN INTERNATIONAL COOPERATION AGENCY			

MAJOR BUILDINGS	
No.	NAME OF BUILDING
1	PASSENGER TERMINAL
2	ADMINISTRATION BUILDING
3	OPERATIONS BUILDING
4	CONTROL TOWER
5	WORK SHOP
6	CARGO TERMINAL
7	BOILER HOUSE
8	WATER POWER HOUSE
9	FIRE STATION
10	FUEL TANK
11	MOTEL
12	METEO STATION

LEGEND	
—	ROAD
- - -	AIRPORT BOUNDARY
- · - · -	RUNWAY STRIP
- · - - · -	CROSSED MOVEMENT AREA

APPROVED BY :	
THE REPUBLIC OF KAZAKHSTAN	APPROVED BY :
MINISTRY OF TRANSPORT AND COMMUNICATIONS	CHECKED BY :
AKTAU AIRPORT	DRAWING No.:
EXISTING AIRPORT LAYOUT	DATE:
THE STUDY ON AIR TRANSPORT DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN JAPAN INTERNATIONAL COOPERATION AGENCY	
SCALE:	SR94, 1990
DATE:	

Appendix-2.3.9 C Existing Airport Layout (3)

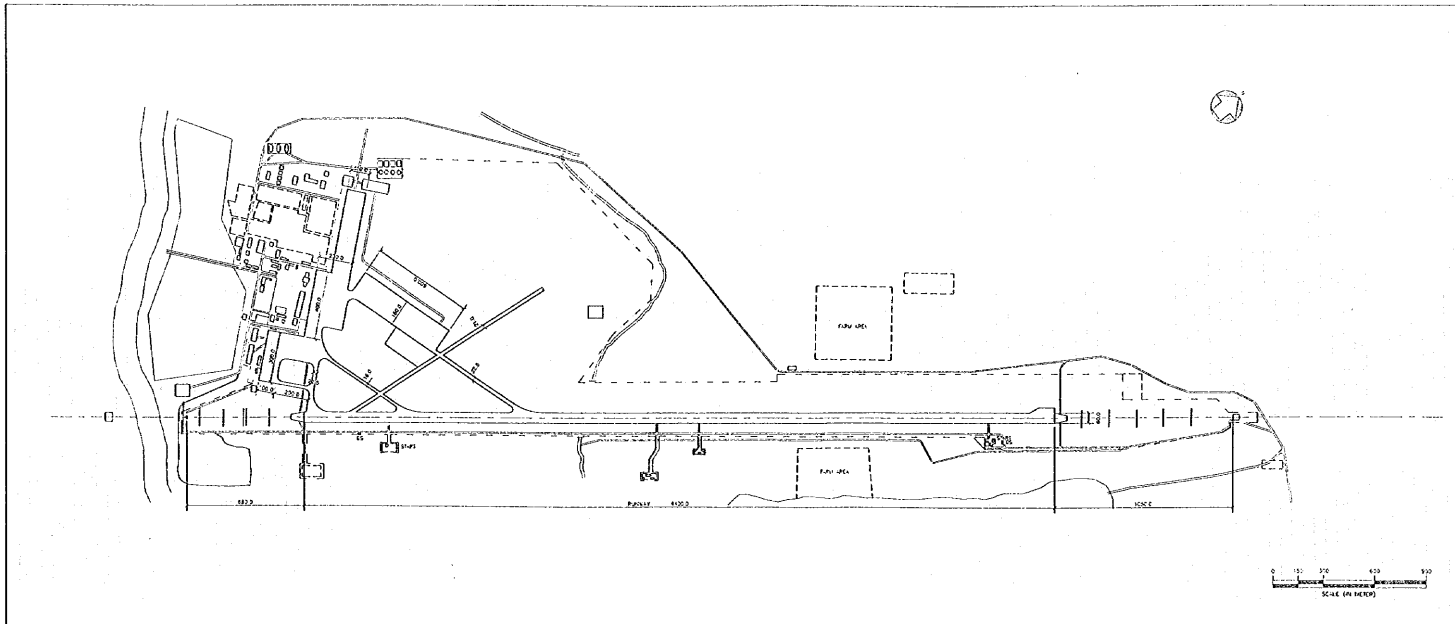


BASIC DATA TABLE		MAJOR BUILDINGS		LEGEND	
APPROVED BY :	THE REPUBLIC OF KAZAKHSTAN	No.	NAME OF BUILDING	1	ROAD
CHECKED BY :	MINISTRY OF TRANSPORT AND COMMUNICATIONS	1	PASSENGER TERMINAL	2	AIRPORT BOUNDARY
DRAWN BY :	AKTYUBINSK AIRPORT	2	WATER HOUSE	3	RUNWAY STRIP
DRAWING No.	EXISTING AIRPORT LAYOUT	3	ADMINISTRATION BUILDING	4	GRASSED MOVEMENT AREA
SCALE:	THE STUDY ON AIR TRANSPORT DEVELOPMENT	4	OPERATIONS BUILDING	5	PIZZA
DATE:	UFAAN INTERNATIONAL COOPERATION AGENCY	5	CONTROL TOWER	6	
		6	WORK SHOP	7	
		7	CARGO TERMINAL	8	
		8	FUEL TANKS	9	
		9	FIRE STATION	10	
		10	FUEL TANKS	11	
		11	MOTEL	12	
		12	METEO STATION		

APPROVAL CLASS	APPROVAL DATE	APPROVAL BY
1	13 / 31	
2	20 P/A/A/T	
3	26.5, 30.0/20.0	
4	4.00, 4.00, 4.00	
5	5 km	

APPROVAL CLASS	APPROVAL DATE	APPROVAL BY
1	13 / 31	
2	20 P/A/A/T	
3	26.5, 30.0/20.0	
4	4.00, 4.00, 4.00	
5	5 km	

Appendix-2.3.9 C Existing Airport Layout (4)



BASIC DATA TABLE	
AIRPORT CLASS	INDIVIDUAL AIRPORT 35_33
AIRPORT STATUS	NO. RUN 35.0/35.1
AIRPORT REF. ELEVATION	PL. ELEVAT. SYSTEM 35.0/35.1
AIRPORT REF. POINT	NO. VOR/DME 245.0/244
DATA COORDINATES	E. 3723.3 N. 4311.1
AIRPORT REF. TEMP.	NO. MET. 100.0
PLANNED DIRECTION	05 / 33 DISTANCE FROM CITY 10 km.

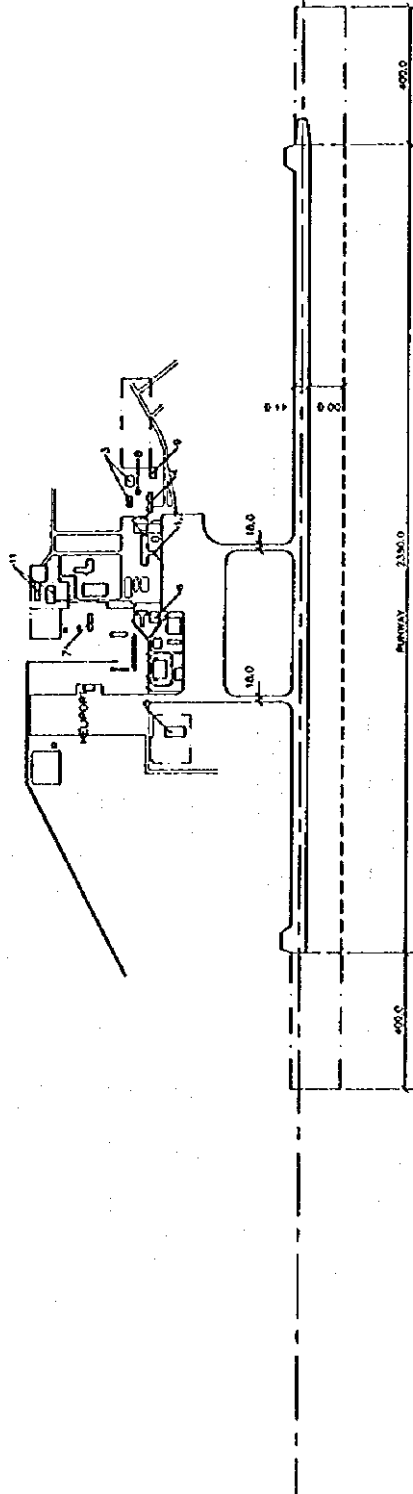
AIRPORT BUILDINGS			
NO.	NAME OF BUILDING	NO.	NAME OF BUILDING
1	PASSENGER TERMINAL	7	ENGINE HOUSE
2	CONTROL TOWER	8	NO. 1 FUEL TANK
3	COMMUNICATION BUILDING	9	FIRE STATION
4	COCKPIT TOWER	10	FUEL TANK
5	TRUCK SHOP	11	WATER
6	EXPLO. TOWER	12	LAND. STATION

LEGEND	
—————	ASB
-----	AIRPORT FENCE
-----	PROTECTIVE FENCE
-----	PIER

THE REPUBLIC OF KAZAKHSTAN	APPROVED BY:
MINISTRY OF TRANSPORT AND COMMUNICATIONS	CHECKED BY:
ALMATY AIRPORT	DRAWING NO.
DRAWING TITLE	EXISTING AIRPORT LAYOUT
DATE: 05.04.2010	SCALE
BY: THE ARCHITECT OF BUILDINGS	SIGNATURE
DATE: 05.04.2010	DATE: 05.04.2010



Appendix-2.3.9 C Existing Airport Layout (5)



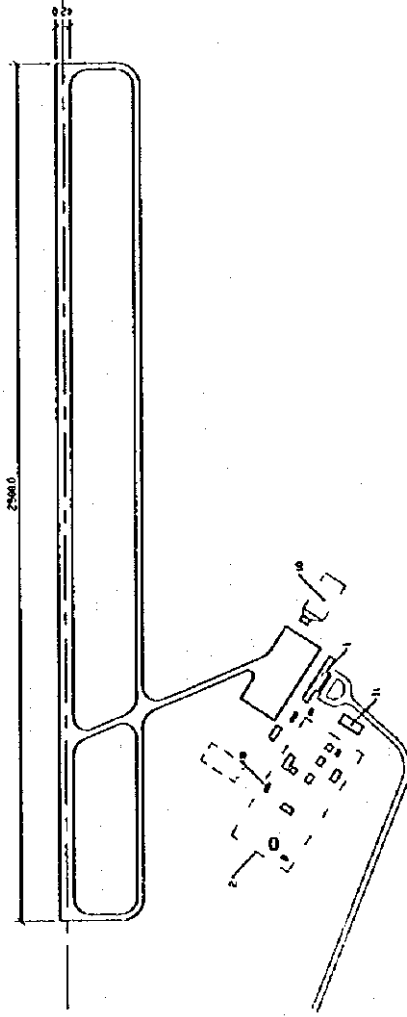
BASIC DATA TABLE	
AIRPORT CLASS	1A, 3E
AIRPORT STATUS	INSTRUMENT RUNWAY
AIRPORT REF. ELEVATION	23 m
AIRPORT REF. POINT (LAMP) COORDINATES	N 47°07.4' E 51°49.5'
AIRPORT REF. SECTION	14 / 32
RUNWAY DIMENSION	5 km
PAVEMENT STRENGTH	17/19/11/7
NAVIGATION AIDS	DLS, VOP/DME MOR, FSBM, ALS
DISTANCE FROM CITY	5 km

MAJOR BUILDINGS	
No.	NAME OF BUILDING
1	PASSENGER TERMINAL
2	ADMINISTRATION BUILDING
3	OPERATIONS BUILDING
4	CONTROL TOWER
5	WORK SHOP
6	CARGO TERMINAL
7	ROCKY HOUSE
8	MAIN POWER HOUSE
9	FIRE STATION
10	FUEL TANK
11	MOTEL
12	METEO STATION

LEGEND	
	ROAD
	FENCE
	RUNWAY STRIP
	GRASSED MOVEMENT AREA

THE REPUBLIC OF KAZAKHSTAN MINISTRY OF TRANSPORT AND COMMUNICATIONS	APPROVED BY :
ATYRAU AIRPORT	CHECKED BY :
DRAWING TITLE EXISTING AIRPORT LAYOUT	DRAWN BY :
	DRAWING No. :
THE STUDY OF THE TRANSPORT DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE :
	DATE :
	SEP. 1998

Appendix-2.3.9 C Existing Airport Layout (6)



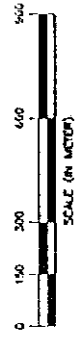
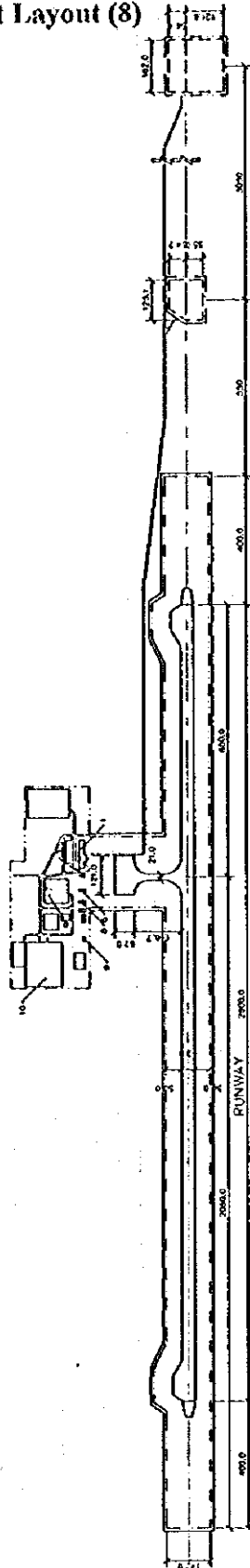
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CHECKED BY :	MINISTRY OF TRANSPORT AND COMMUNICATIONS
DRAWN BY :	BALKASH AIRPORT
DRAWING No. :	EXISTING AIRPORT LAYOUT
SCALE :	THE STUDY ON AIR TRANSPORT DEVELOPMENT
DATE :	IN THE REPUBLIC OF KAZAKHSTAN
	JAPAN INTERNATIONAL COOPERATION AGENCY

LEGEND	
—	ROAD
- - -	FENCE

MAJOR BUILDINGS			
No.	NAME OF BUILDING	NO.	NAME OF BUILDING
1	PASSENGER TERMINAL	7	BOILER HOUSE
2	ADMINISTRATION BUILDING	8	MAIN POWER HOUSE
3	OPERATIONS BUILDING	9	FIRE STATION
4	CONTROL TOWER	10	FUEL TANK
5	WORK SHOP	11	HOTEL
6	CARGO TERMINAL	12	METEO STATION

BASIC DATA TABLE			
AIRPORT CLASS	INSTRUMENT RUNWAY	05 / 23	
AIRPORT STATUS	W. Dim	19 P / A / T / T	
AIRPORT REF. ELEVATION	PAVEMENT STRENGTH		
	433 m		
AIRPORT ICAO CODE	MARKATION AIDS		
UYYE	N 4653.6'		
	E 7500.3'		
AIRPORT REF. TEMP	DISTANCE FROM CITY	6 km	
	05 / 23		

Appendix-2.3.9 C Existing Airport Layout (8)



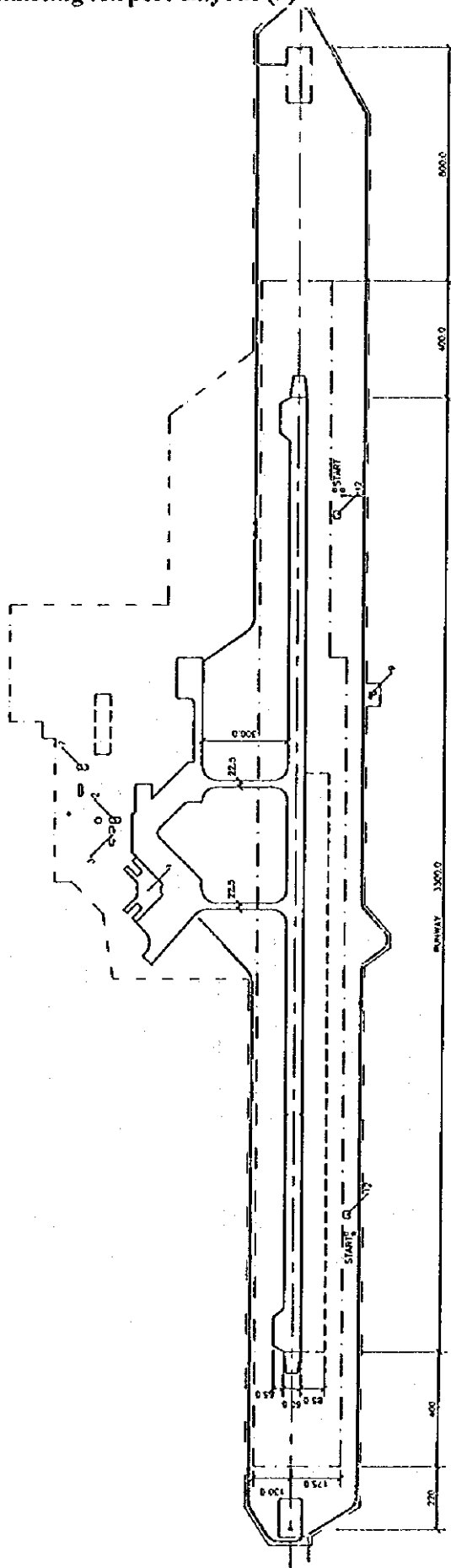
APPROVED BY :	THE REPUBLIC OF KAZAKHSTAN
CHECKED BY :	MINISTRY OF TRANSPORT AND COMMUNICATIONS
DRAWN BY :	EKIBASTUZ AIRPORT
DRAWING NO. :	EXISTING AIRPORT LAYOUT
SCALE :	THE STUDY ON AIR TRANSPORT DEVELOPMENT
DATE :	IN THE REPUBLIC OF KAZAKHSTAN
	JAPAN INTERNATIONAL COOPERATION AGENCY

LEGEND	
ROAD	ROAD
AIRPORT BOUNDARY	AIRPORT BOUNDARY
RUNWAY STRIP	RUNWAY STRIP
FENCE	FENCE

MAJOR BUILDINGS			
No.	NAME OF BUILDING	NAME OF BUILDING	
1	PASSENGER TERMINAL	7	SOLEIL HOUSE
2	ADMINISTRATIVE BUILDING	8	MAIN POWER HOUSE
3	OPERATORS BUILDING	9	FIRE STATION
4	CONTROL TOWER	10	FUEL TANK
5	WORK SHOP	11	HOTEL
6	CARGO TERMINAL	12	METRO STATION

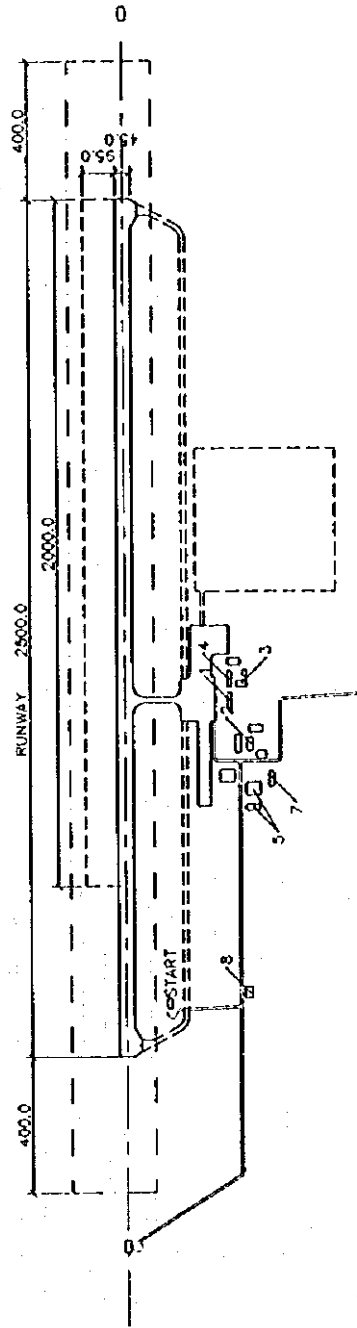
BASIC DATA TABLE	
AIRPORT CLASS	INTERNATIONAL AIRWAY
AIRPORT STATUS	PAVED/STRENGTH
AIRPORT REF. ELEVATION	236.3 m
AIRPORT REF. POINT (MPP) COORDINATES	N 51°30'4" E 75°13'2"
AIRPORT REF. TEMP	NAVIATION AISE
RUNWAY DIRECTION	05 / 23
	DISTANCE FROM CITY

Appendix-2.3.9 C Existing Airport Layout (9)



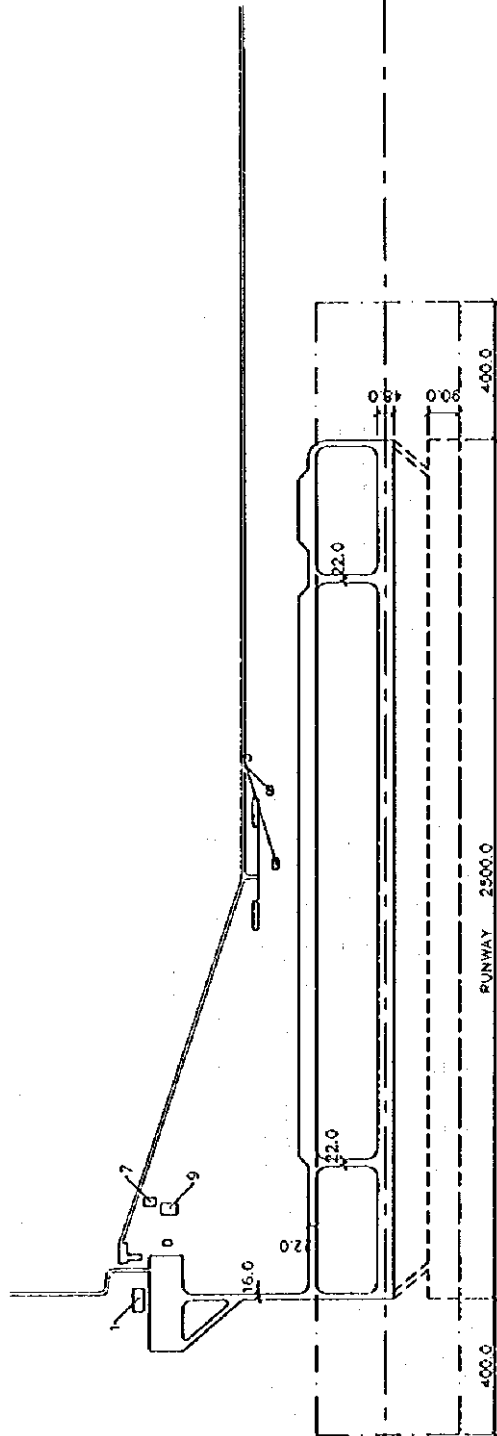
BASIC DATA TABLE		LEGEND		MAJOR BUILDINGS		THE REPUBLIC OF KAZAKHSTAN MINISTRY OF TRANSPORT AND COMMUNICATIONS	
APPROVED BY :		ROAD		No.	NAME OF BUILDING	KARAGANDA AIRPORT	
CHECKED BY :		AIRPORT BOUNDARY		1	PASSENGER TERMINAL	DRAWING TITLE	
DRAWN BY :		RUNWAY STRIP		2	ADMINISTRATION BUILDING	EXISTING AIRPORT LAYOUT	
DRAWING NO.:		CROSSED MOVEMENT AREA		3	OPERATIONS BUILDING	THE STUDY ON AIR TRANSPORT DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN JAPAN INTERNATIONAL COOPERATION AGENCY	
SCALE:				4	CONTROL TOWER	APPROVED BY :	
DATE:				5	WORK SHOP	CHECKED BY :	
				6	CARGO TERMINAL	DRAWN BY :	
				7	SOILER HOUSE	DRAWING NO.:	
				8	MAIN POWER HOUSE	SCALE:	
				9	FIRE STATION	DATE:	
				10	FUEL TANK		
				11	MOTEL		
				12	METEO. STATION		
APPROVAL CLASS	RESTRICTION PRIORITY	Q1, 23					
APPROVAL STATUS	PERMITS STRENGTH	40/7/1/2/7					
APPROVAL REF. ELEVATION	IMP. DOW.	337 m					
APPROVAL REF. POINT (APP)	COORDINATES	N 49°40'3"					
APPROVAL REF. ELEM.	NAVIGATION AIDS	245.108/046					
		4108/488/100					
		415.041/101					
		20 km					

Appendix-2.3.9 C Existing Airport Layout (10)



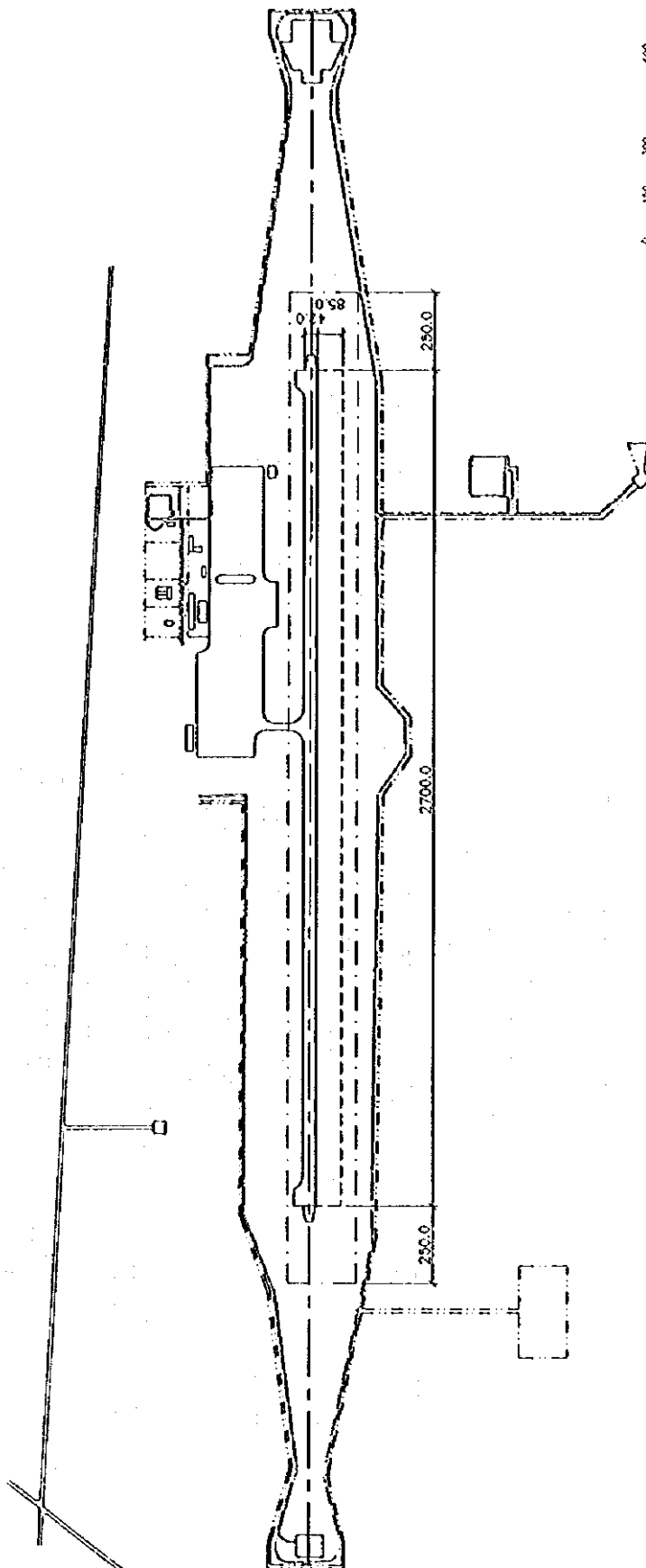
BASIC DATA TABLE		MAJOR BUILDINGS		LEGEND		APPROVED BY :	
APPROVAL CLASS	INSTRUMENT RUNWAY	No.	NAME OF BUILDING	ROAD	THE REPUBLIC OF KAZAKHSTAN	CHECKED BY :	
APPROVAL STATUS	PAVED LIGHT STRONGH	1	PASSENGER TERMINAL	RUNWAY STRIP	MINISTRY OF TRANSPORT AND COMMUNICATIONS	CHECKED BY :	
APPROVAL DATE, ELEVATION	INL. DATA 263.0	7	BOILER HOUSE	GRASSED MOVEMENT AREA	KOKCHETAU AIRPORT	DRAWN BY :	
APPROVAL REF. POINT	N 53°19.0'	8	ADMINISTRATION BUILDING		DRAWING TITLE	DRAWING NO.:	
CAMP COORDINATES	E 89°56.0'	9	OPERATORS BUILDING		EXISTING AIRPORT LAYOUT	SCALE:	
APPROVAL REF. TOWER	DISTANCE FROM CITY	10	CONTROL TOWER		THE STUDY ON AIR TRANSPORT DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN JAPANESE INTERNATIONAL COOPERATION AGENCY	DATE:	SEPT. 1996
RUNWAY DIRECTION	02 / 20	11	WORK SHOP				
		12	CARGO TERMINAL				
			MOTEL				
			METEO STATION				

Appendix-2.3.9 C Existing Airport Layout (11)



BASIC DATA TABLE		MAJOR BUILDINGS		LEGEND		APPROVED BY :	
APPROVED CLASS	INSTRUMENT RUNWAY	No.	NAME OF BUILDING	No.	NAME OF BUILDING	THE REPUBLIC OF KAZAKHSTAN	
APPROVED STATUS	15. 33	1	PASSENGER TERMINAL	7	BOKER HOUSE	MINISTRY OF TRANSPORT AND COMMUNICATIONS	CHECKED BY:
APPROVED REF. ELEVATION	PAVEMENT STRENGTH	2	ADMINISTRATION BUILDING	8	MAIN POWER HOUSE	KOSTANAY AIRPORT	DRAWN BY:
APPROVED REF. POINT	N 52°12'4"	3	OPERATIONS BUILDING	9	FIRE STATION	DRAWING TITLE	DRAWING NO.
(APP) COORDINATES	E 67°33'0"	4	CONTROL TOWER	10	FUEL TANK	EXISTING AIRPORT LAYOUT	
APPROVED REF. TEMP	2 km	5	WORK SHOP	11	MOTEL		SCALE
AUTUAL DIRECTION	13 / 33	6	CARGO TERMINAL	12	LETICO STATION		DATE
							Sept. 1986

Appendix-2.3.9 C Existing Airport Layout (12)



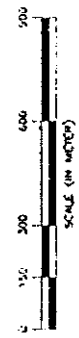
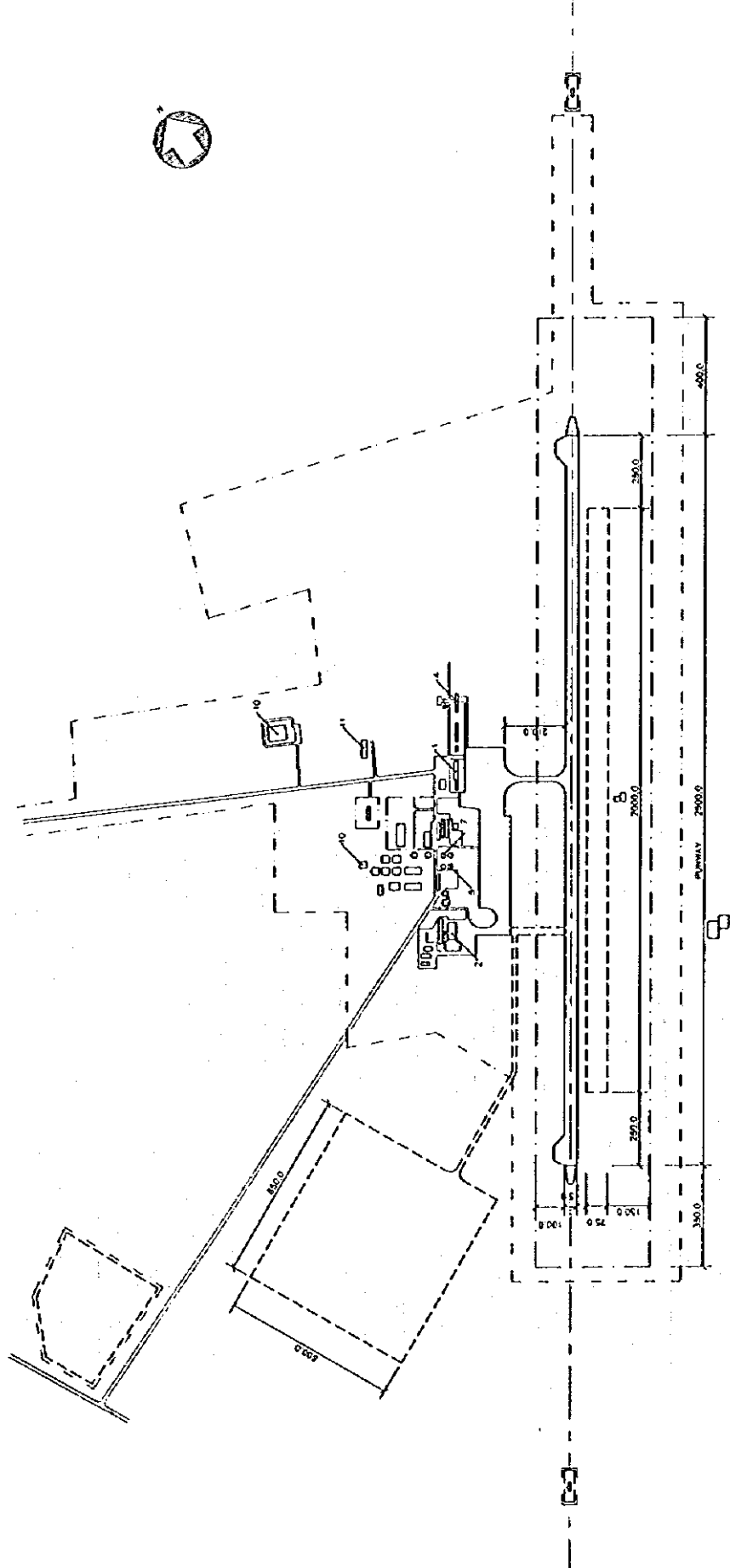
APPROVED BY :	THE REPUBLIC OF KAZAKHSTAN
CHECKED BY :	MINISTRY OF TRANSPORT AND COMMUNICATIONS
DRAWN BY :	KYZYL-OLDA AIRPORT
DRAWING No. :	EXISTING AIRPORT LAYOUT
SCALE :	THE STUDY ON AIR TRANSPORT DEVELOPMENT
DATE :	MOSCOW, SEPTEMBER 1994

LEGEND	
	ROAD
	AIRPORT BOUNDARY
	RUNWAY STRIP
	GRASSED MOVEMENT AREA

MAJOR BUILDINGS	
No.	NAME OF BUILDING
1	PASSENGER TERMINAL
2	ADMINISTRATION BUILDING
3	OPERATIONS BUILDING
4	CONTROL TOWER
5	WORK SHOP
6	CARGO TERMINAL
7	BOILER HOUSE
8	MAIN POWER HOUSE
9	FIRE STATION
10	FUEL TANK
11	MOTEL
12	METEO STATION

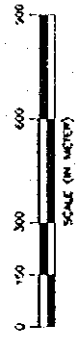
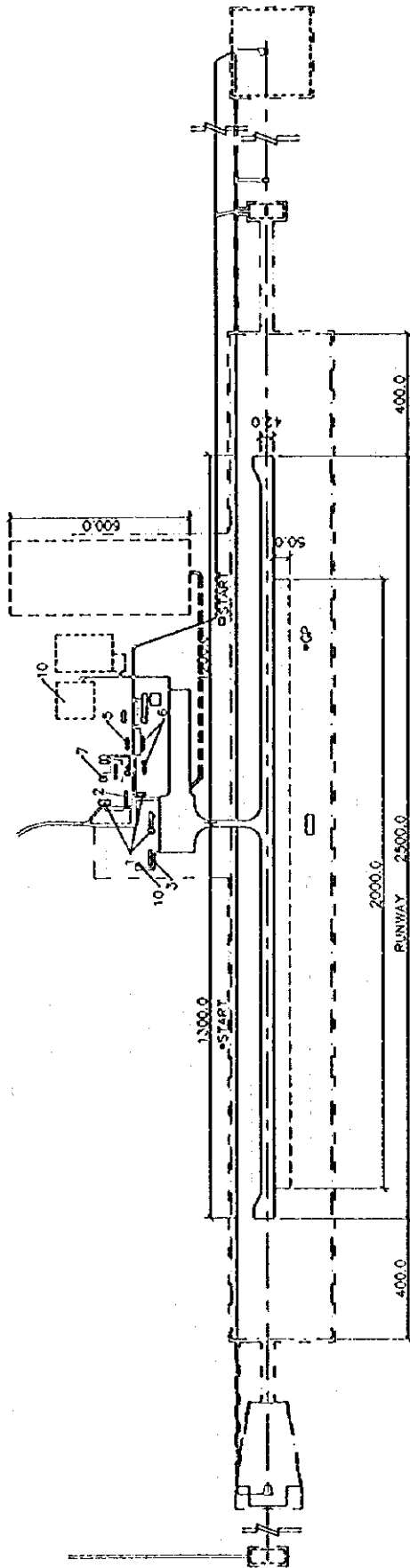
BASIC DATA TABLE	
AIRPORT CLASS	RESTRICTED RUNWAY
AIRPORT STATUS	06 / 24
AIRPORT REF. ELEVATION	3777.877
AIRPORT REF. POINT (AMP) COORDINATES	N 44°42.4'
	E 69°55.5'
AIRPORT REF. TEMP	NAVIGATION AIDS
RUNWAY DIRECTION	06 / 24
	DISTANCE FROM CITY
	17.5 km

Appendix-2.3.9 C Existing Airport Layout (13)



BASIC DATA TABLE		MAJOR BUILDINGS		LEGEND		APPROVED BY :	
APPROVED CLASS	INSTRUMENT AIRWAY	No.	NAME OF BUILDING	ROAD	THE REPUBLIC OF KAZAKHSTAN	CHECKED BY :	
APPROVED STATUS	PAVEMENT STRENGTH	7	BOILER HOUSE	AIRPORT BOUNDARY	MINISTRY OF TRANSPORT AND COMMUNICATIONS	DRAWN BY :	
APPROVED REF. ELEVATION	125.00	8	MAIN POWER HOUSE	RUNWAY STRIP	PAVLODAR AIRPORT	DRAWING NO.	
APPROVED REF. POINT (CHP) COORDINATES	N 52°11.6'	9	FIRE STATION	GRASSED MOVEMENT AREA	DRAWING TITLE		
APPROVED REF. TIEUP	E 77°03.4'	10	FUEL FARM		THE STUDY ON AIR TRANSPORT DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN	SCALE:	
APPROVED REF. TIEUP DIRECTION	04 / 22	11	HOTEL		JAPAN INTERNATIONAL COOPERATION AGENCY	DATE:	Sept. 1966
		12	RAILROAD STATION				

Appendix-2.3.9 C Existing Airport Layout (14)



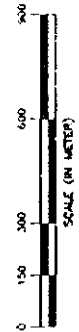
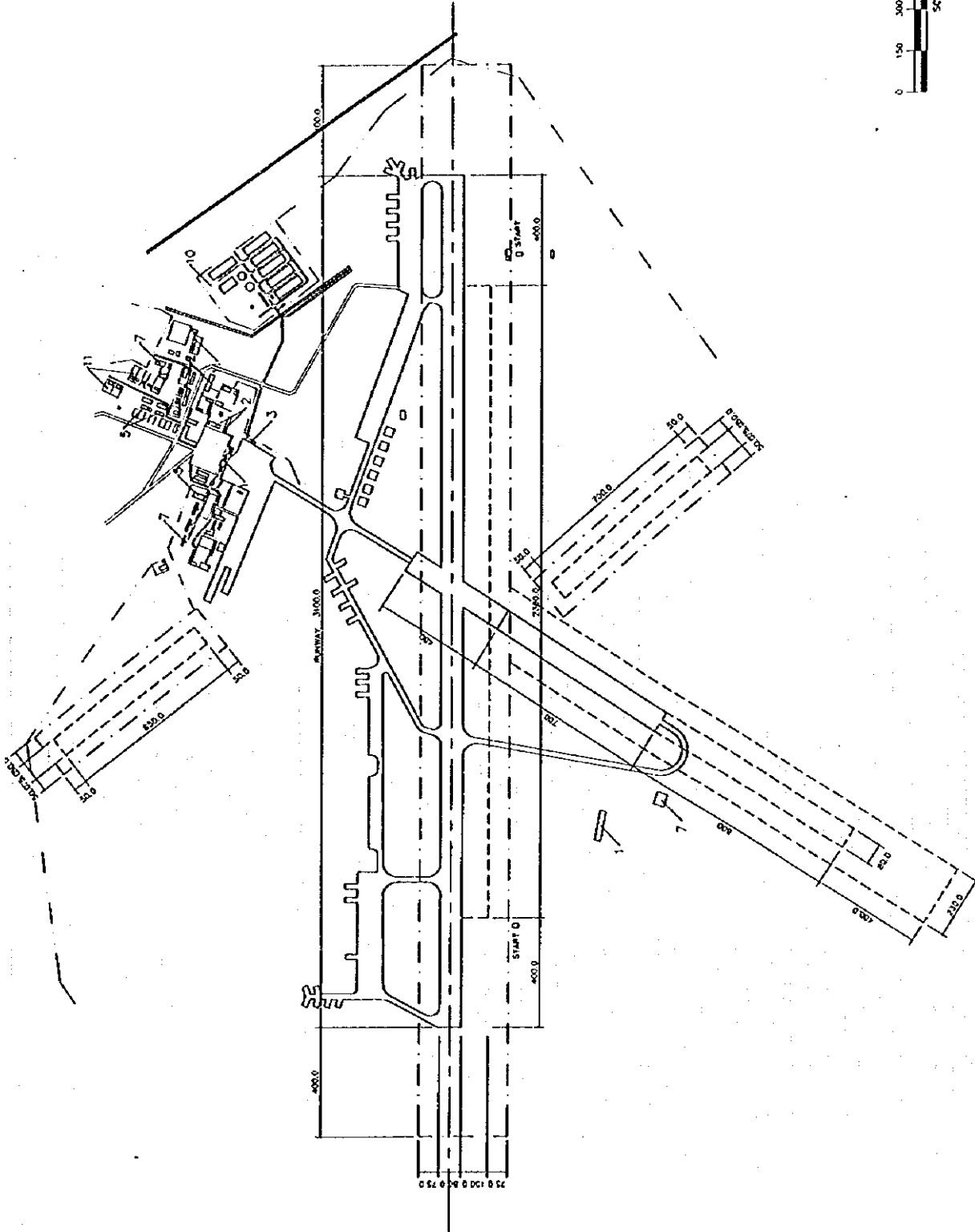
BASIC DATA TABLE		
AIRPORT CLASS	RESTRICTED RUNWAY	05 / 23
AIRPORT STATUS	INT. DOM.	36 / 7 / 8 / X / U
AIRPORT REF. ELEVATION	PAVEMENT STRENGTH	
AIRPORT REF. POINT (APP) COORDINATES	NAVIGATION AOS	
AIRPORT REF. TEMP	DISTANCE FROM CITY	11 km
RUNWAY DIRECTION	05 / 23	

MAJOR BUILDINGS			
No.	NAME OF BUILDING	No.	NAME OF BUILDING
1	PASSENGER TERMINAL	7	BOILER HOUSE
2	ADMINISTRATION BUILDING	8	MARK POWER HOUSE
3	OPERATIONS BUILDING	9	FIRE STATION
4	CONTROL TOWER	10	FUEL TANK
5	WORK SHOP	11	HOTEL
6	CARGO TERMINAL	12	METEO STATION

LEGEND	
	ROAD
	AIRPORT BOUNDARY
	RUNWAY STRIP
	CROSSED MOVEMENT AREA

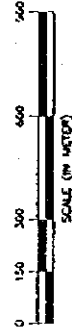
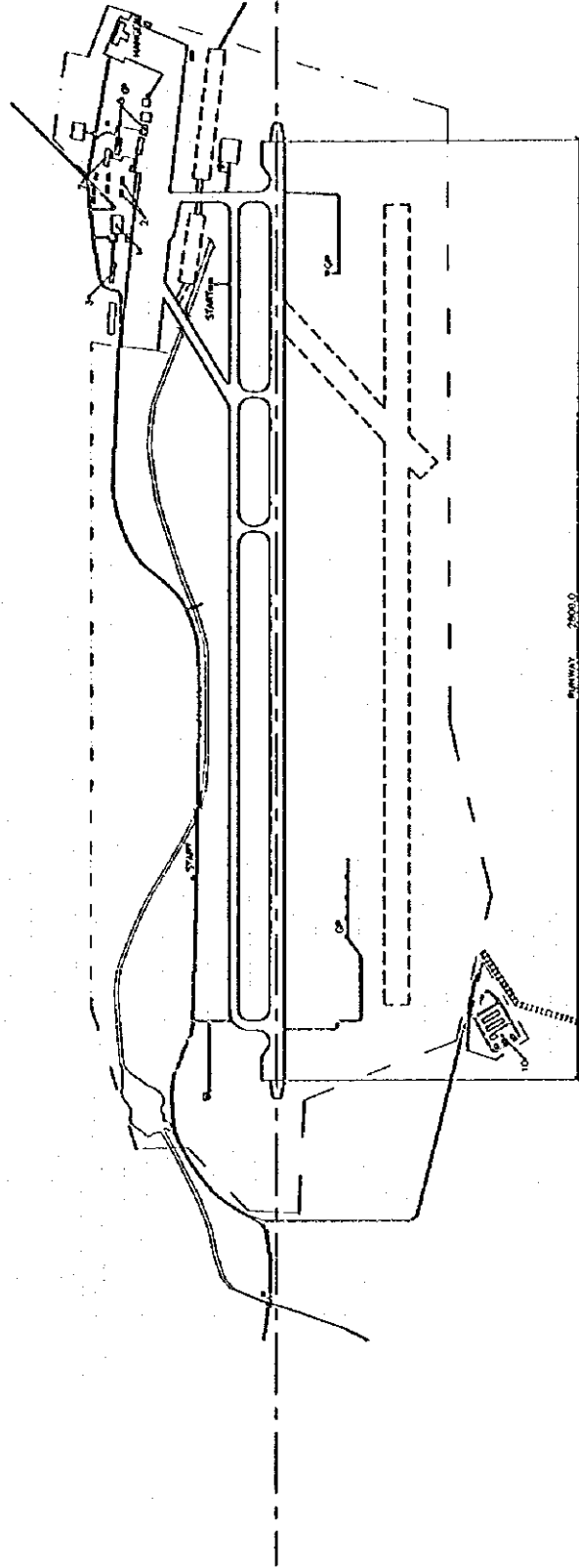
THE REPUBLIC OF KAZAKHSTAN MINISTRY OF TRANSPORT AND COMMUNICATIONS	APPROVED BY:
PETROPAVLOVSK AIRPORT	CHECKED BY:
DRAWING TITLE EXISTING AIRPORT LAYOUT	DRAWN BY:
	DRAWING No.
THE STUDY ON AIR TRANSPORT DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE:
	DATE
	Sept. 1996

Appendix-2.3.9 C Existing Airport Layout (15)



BASIC DATA TABLE		MAJOR BUILDINGS		LEGEND		APPROVED BY :	
APPROVAL CLASS	INSTRUMENT RUNWAY	No.	NAME OF BUILDING	---	ROAD	THE REPUBLIC OF KAZAKHSTAN	
APPROVAL STATUS	VAL. DATA	1	PASSENGER TERMINAL	---	ROAD BOUNDARY	MINISTRY OF TRANSPORT AND COMMUNICATIONS	APPROVED BY :
APPROVAL REF. ELEVATION	PAVEMENT STRENGTH	2	ADMINISTRATION BUILDING	---	RUNWAY STRIP	SEMIPALATINSK AIRPORT	CHECKED BY :
APPROVAL REF. POINT (LAMP) COORDINATES	NAVIGATION AIDS	3	OPERATIONS BUILDING	---	GRASSED MOVEMENT AREA	EXISTING AIRPORT LAYOUT	DRAWN BY :
APPROVAL REF. TEMP	DISTANCE PROJ. CITY	4	CONTROL TOWER	---	RAIL WAY		DRAWING No.
APPROVAL DIRECTION	08/26, 07/20	5	BOILER SHOP	---			SCALE:
		6	CARGO TERMINAL	---			(DATE)
		7	BOILER HOUSE	---			Sept. 1986
		8	MAIN POWER HOUSE	---			
		9	FIRE STATION	---			
		10	FUEL TANK	---			
		11	STAFF HOUSE	---			
		12	METEO STATION	---			

Appendix-2.3.9 C Existing Airport Layout (16)



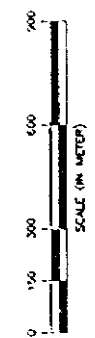
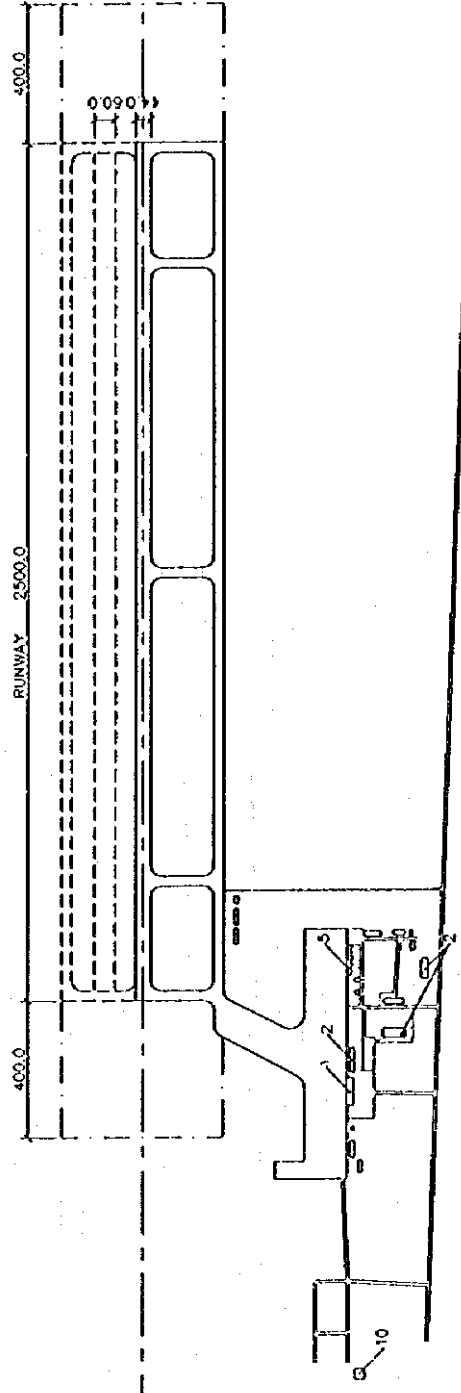
BASIC DATA TABLE			
AIRPORT CLASS	INSTRUMENT RUNWAY	10, 24	
AIRPORT STATUS	PAVEMENT STRENGTH	22/R/XX/T	
AIRPORT REF. ELEVATION	INSTRUMENT STRENGTH	24.5, 4009	
AIRPORT REF. POINT (APF) COORDINATES	NAVIGATION AIDS	MSNA, MEDL	
AIRPORT REF. TOWER	DISTANCE FROM CITY	41.5, 10/17L	
RUNWAY DIRECTION		10 / 24	17 km

MAJOR BUILDINGS	
No.	NAME OF BUILDING
1	PASSENGER TERMINAL
2	ADMINISTRATION BUILDING
3	OPERATIONS BUILDING
4	CONTROL TOWER
5	WORK SHOP
6	CARGO TERMINAL
7	BOILER HOUSE
8	MAIN POWER HOUSE
9	FIRE STATION
10	FUEL FARM
11	MOTEL
12	METEO STATION

LEGEND	
[Symbol]	ROAD
[Symbol]	AIRPORT BOUNDARY
[Symbol]	RUNWAY STRIP
[Symbol]	GRADED MOVEMENT AREA
[Symbol]	RAIL WAY
[Symbol]	RIVER

THE REPUBLIC OF KAZAKHSTAN MINISTRY OF TRANSPORT AND COMMUNICATIONS	APPROVED BY :
SHYMKENT AIRPORT	CHECKED BY :
DRAWING TITLE EXISTING AIRPORT LAYOUT	DRAWN BY :
	DRAWING NO. :
THE STUDY ON AIR TRANSPORT DEVELOPMENT JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE :
	DATE :
	Sheet 19/26

Appendix-2.3.9 C Existing Airport Layout (17)



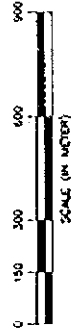
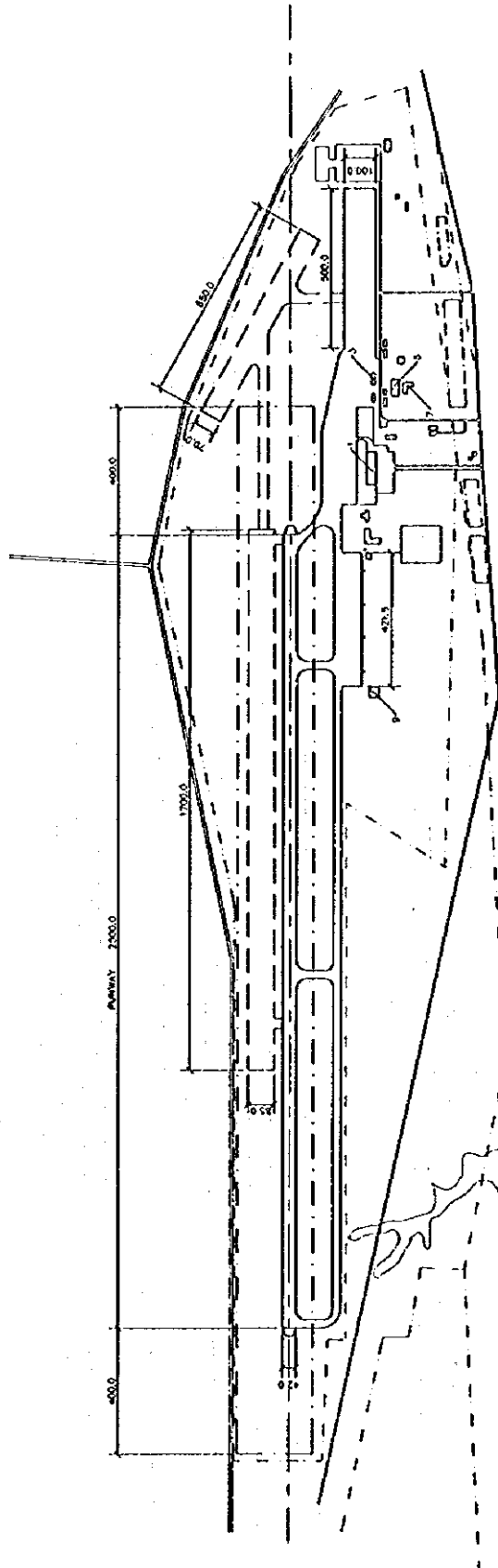
APPROVED BY :		THE REPUBLIC OF KAZAKHSTAN	
CHECKED BY :		MINISTRY OF TRANSPORT AND COMMUNICATIONS	
DRAWN BY :		TALDY KURGAN AIRPORT	
DRAWING NO.:		EXISTING AIRPORT LAYOUT	
SCALE:		THE STUDY ON AIR TRANSPORT DEVELOPMENT	
DATE:		IN THE REPUBLIC OF KAZAKHSTAN	
		JAPAN INTERNATIONAL COOPERATION AGENCY	
		Sept. 1966	

LEGEND		
	ROAD	
	RUNWAY STRIP	
	GRASSCO MOVEMENT AREA	
	FUEL TANK	
	HOTEL	
	METEO STATION	

MAJOR BUILDINGS			
No.	NAME OF BUILDING	No.	NAME OF BUILDING
1	PASSENGER TERMINAL	7	BOLLER HOUSE
2	ADMINISTRATION BUILDING	8	MAIL ROOM HOUSE
3	OPERATORS BUILDING	9	FIRE STATION
4	CONTROL TOWER	10	FUEL TANK
5	WORK SHOP	11	HOTEL
6	CARGO TERMINAL	12	METEO STATION

BASIC DATA TABLE		
APPROVAL CLASS	INSTRUMENT RUNWAY	02 / 20
APPROVAL STATUS	Wt. Dm	14/11/71
APPROVAL REF. ELEVATION	PAVEMENT STRENGTH	
APPROVAL REF. POINT	NAVIGATION AIDS	
(AIP) COORDINATES	DISTANCE FROM CITY	7. km
APPROVAL REF. STRIP		
APPROVAL REFLECTION		

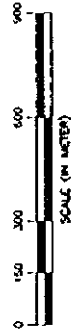
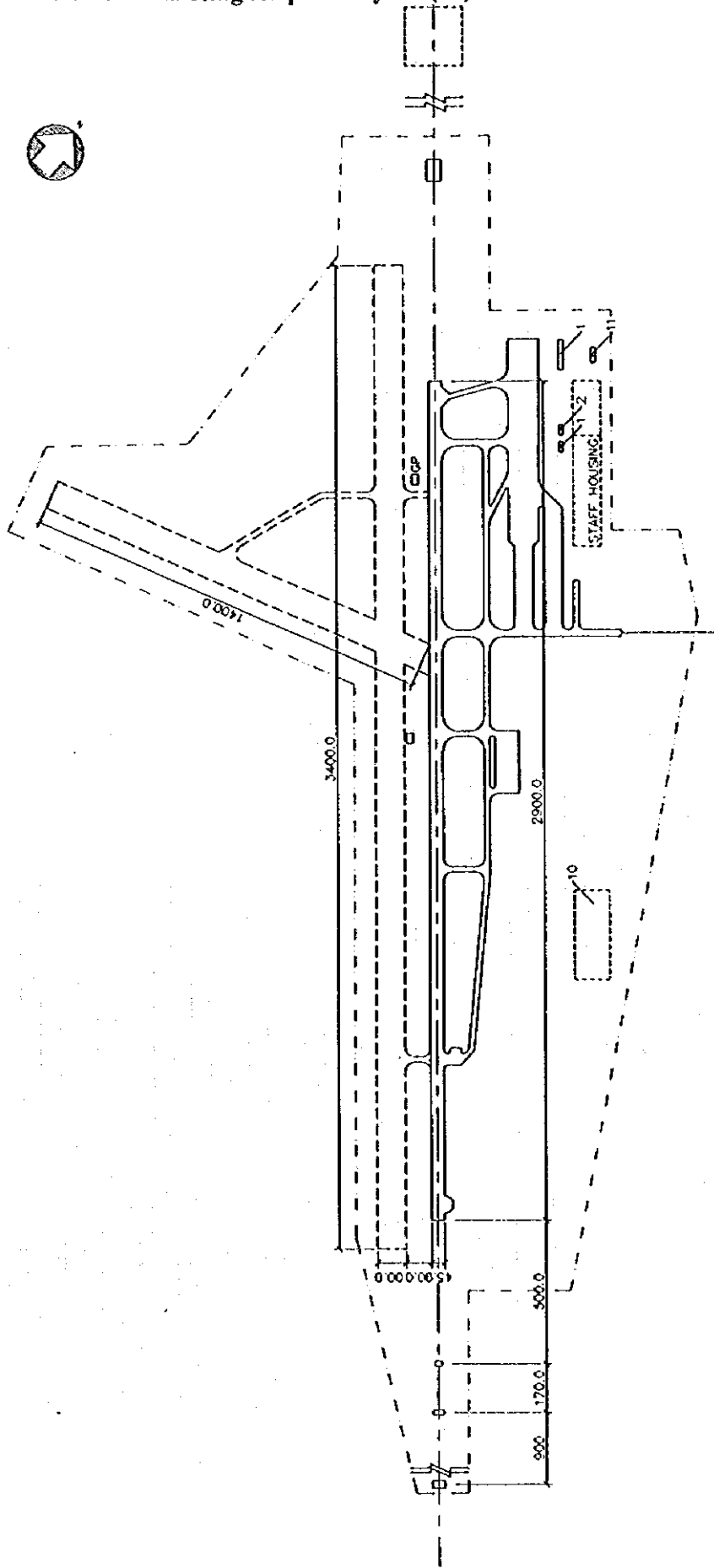
Appendix-2.3.9 C Existing Airport Layout (19)



BASIC DATA TABLE		MAJOR BUILDINGS		LEGEND	
APPROPRIATE CLASS	REGISTERED AIRWAY	No.	NAME OF BUILDING	---	ROAD
APPROPRIATE STATUS	13 / 31	1	PASSENGER TERMINAL	---	AIRPORT BOUNDARY
APPROPRIATE REF. ELEVATION	727P/A/AT	2	ADMINISTRATION BUILDING	---	RUNWAY STRIP
APPROPRIATE REF. POINT (AMP) COORDINATES	21'S, 40'00"E N 5002.1' E 8279.6'	3	OPERATIONS BUILDING	---	GRASSED MOVEMENT AREA
APPROPRIATE REF. TOUP	PSBN, PDKL	4	CONTROL TOWER	---	RESERVOIR AREA
APPROPRIATE DIRECTION	13 / 31	5	WORK SHOP	---	RAILWAY
		6	CARGO TERMINAL	---	RAILWAY
		7	SHOPS HOUSE	---	RAILWAY
		8	MAIN POWER HOUSE	---	RAILWAY
		9	FIRE STATION	---	RAILWAY
		10	FUEL TANK	---	RAILWAY
		11	MOTEL	---	RAILWAY
		12	METEO STATION	---	RAILWAY

APPROVED BY :	THE REPUBLIC OF KAZAKHSTAN
CHECKED BY :	MINISTRY OF TRANSPORT AND COMMUNICATIONS
DRAWN BY :	UST-KAMENOGORSK AIRPORT
DRAWING No. :	EXISTING AIRPORT LAYOUT
SCALE :	THE STUDY ON AIR TRANSPORT DEVELOPMENT
DATE :	SEPTEMBER 1998
	JAPAN INTERNATIONAL COOPERATION AGENCY

Appendix-2.3.9 C Existing Airport Layout (20)

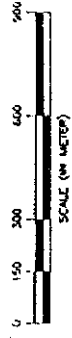
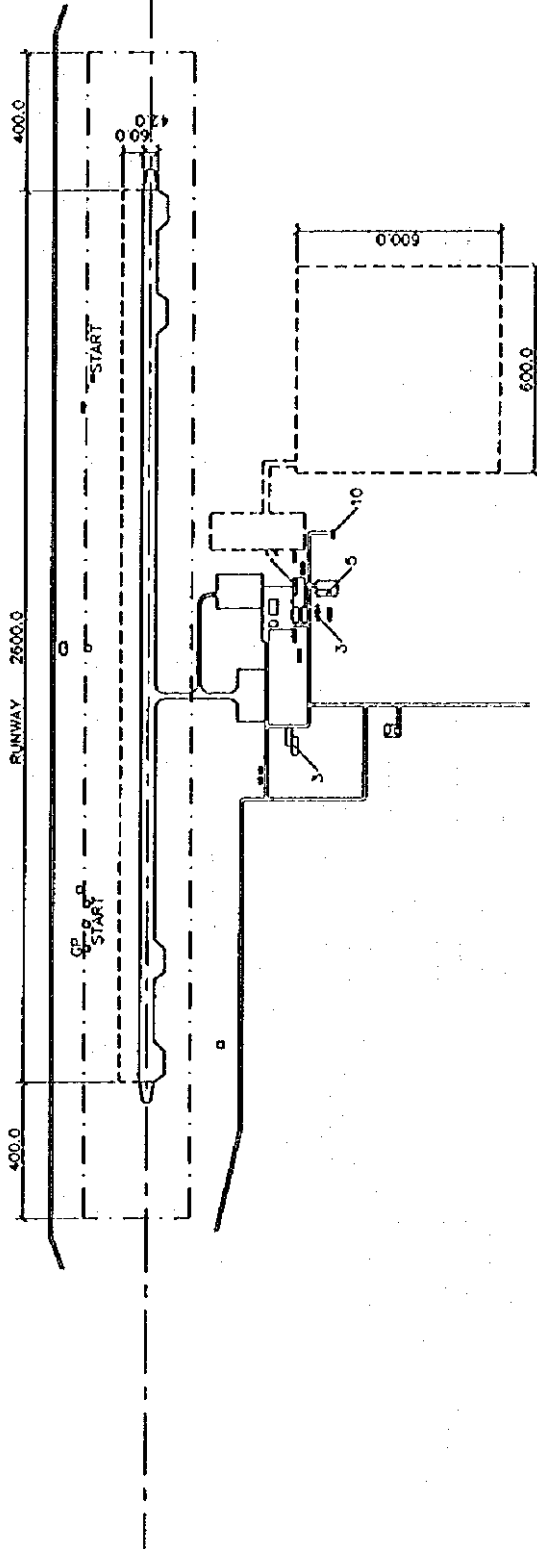


BASIC DATA TABLE		MAJOR BUILDINGS		LEGEND	
APPROVED BY :		No.	NAME OF BUILDING	No.	NAME OF BUILDING
CHECKED BY :		1	PASSENGER TERMINAL	7	BOILER HOUSE
DRAWN BY :		2	ADMINISTRATION BUILDING	8	MAIN POWER HOUSE
DRAWING No. :		3	OPERATIONS BUILDING	9	FIRE STATION
SCALE :		4	CONTROL TOWER	10	FUEL TANK
DATE :		5	WORK SHOP	11	HOTEL
		6	CARGO TERMINAL	12	METEO STATION
APPROVED BY :					
CHECKED BY :					
DRAWN BY :					
DRAWING No. :					
SCALE :					
DATE :					

BASIC DATA TABLE	
APPROVED BY :	13.31
CHECKED BY :	27/7/87/T
DRAWN BY :	
DRAWING No. :	
SCALE :	8.5 mm
DATE :	13/31, 07/25

BASIC DATA TABLE	
APPROVED BY :	
CHECKED BY :	
DRAWN BY :	
DRAWING No. :	
SCALE :	
DATE :	

Appendix-2.3.9 C Existing Airport Layout (21)



BASIC DATA TABLE			
APPROVED BY :	THE REPUBLIC OF KAZAKHSTAN	MINISTRY OF TRANSPORT AND COMMUNICATIONS	APPROVED BY :
CHECKED BY :			CHECKED BY :
DRAWN BY :			DRAWN BY :
DRAWING NO. :			DRAWING NO. :
DATE :			DATE :
THE STUDY ON AIR TRANSPORT DEVELOPMENT OF THE REPUBLIC OF KAZAKHSTAN WITH THE REPUBLIC OF JAPAN JAPAN INTERNATIONAL COOPERATION AGENCY			
THE REPUBLIC OF KAZAKHSTAN MINISTRY OF TRANSPORT AND COMMUNICATIONS ZHEKAZGAN AIRPORT DRAWING TITLE EXISTING AIRPORT LAYOUT SCALE: 1:1000 DATE: Sept. 1994			
MAJOR BUILDINGS		LEGEND	
No.	NAME OF BUILDING	No.	NAME OF BUILDING
1	PASSENGER TERMINAL	7	ROILER HOUSE
2	ADMINISTRATIONS BUILDING	8	MAIN POWER HOUSE
3	OPERATIONS BUILDING	9	PIRE STATION
4	CONTROL TOWER	10	FUEL TANK
5	WORK SHOP	11	MOTEL
6	CARGO TERMINAL	12	METEO STATION
AIRPORT CLASS : AIRPORT STATUS : AIRPORT REF. ELEVATION : AIRPORT REF. POINT : (LHR) COORDINATES : AIRPORT REF. TEMP. : RUNWAY DIRECTION :			
INSTRUMENT RUNWAY		04 / 22	
PAVEMENT STRENGTH		21/R/18/T	
MILE DIM. : 301 m			
NAVIGATION AIDS			
DISTANCE FROM CITY : 6 km			

AGREEMENT ON CIVIL AVIATION AND AIRSPACE UTILIZATION

(between the Commonwealth of Independent States)

The states participating in this Agreement (as shown below) as a result of their declarations of independence:

- being guided by the International Convention on Civil Aviation and recognizing the importance of Civil Aviation as one of the uniting and cooperating factors between peoples of different countries;
 - respecting and considering the rights of the participating states and the equal opportunities for any states to strive to ensure, to the maximum extent possible, the need for safe, regular and orderly civil aviation activities;
 - recognizing that the safety civil aviation services for people may be enabled only by following standard rules for organization, flight operation and air space utilization;
 - being aware of the need to conduct aviation activity in a competitive market by organizations of any state and form of ownership; and
 - taking into consideration international experience in developing aviation;
- have made this Agreement.

GENERAL PRINCIPLES

Article 1

Contracting states accept that any state has full and undisputed sovereignty over the airspace above its territorial land and water. The airspace of participating states is considered as united with the regions of open air space where, according to international agreements, air traffic services have been delegated to the former USSR to organize flights and control air traffic.

Article 2

Any of the contracting states shall independently economically regulate commercial and general civil aviation activity on its territory, according to accepted standards.

Article 3

Contracting states accept the obligation to abide by preceding agreements in civil aviation if these are not contrary to the legislation of the Contracting States and obligations related to the membership in international organizations for civil aviation.

Article 4

Contracting states recognize the necessity of maintaining the validity of the Air Code, standards, rules and other regulations in the field of civil aviation and utilization of air space, certificates, registration, and identification cards and documents until new interstate regulations and air legislation have been adopted.

Article 5

Taking into consideration that the Russian language is one of the official languages of the International Civil Aviation Organization (ICAO), the contracting states accept it as the official language to be used in conducting activities covered by this Agreement.

Article 6

The relations in field of civil aviation and utilization of air space between the contracting states and the states which are not the members of this agreement are based on the common principles and standards of international law.

SCOPE OF THE AGREEMENT

Article 7

The Agreement specifies the following areas of cooperative regulation to the extent that these are not contrary to the legislation of the Contracting States:

- a) the development of the rules and organization for the utilization of air space, and controlling the implementation of those rules. Organization of the unified control (management) of air traffic;
- b) the development of interstate regulations and standards in consideration of the requirements of the International Civil Aviation Organization (ICAO) for flight safety, airworthiness of aircraft, requirements for enterprises, certification rules, rules of the air, rescue standards, rules for investigating air incidents, and the implementation of and compliance with these rules and standards;
- c) the certification of air carriers for international flights, aircraft, international air routes, aerodromes, systems of navigation and communication, flight crew and dispatchers, and enterprises which manufacture aviation equipment;
- d) the development of training requirements and the coordination of education systems for aviation specialists;
- e) participating in the investigation of air incidents;
- f) organizing the development and implementation of interstate programs and projects for the scientific and technical development of civil aviation, standard systems for air traffic control and ensuring flights safety, and organizing expertise and consulting services;
- g) the development and coordination of policy in the field of international air negotiations. Participation in the International Civil Aviation Organization (ICAO) and other international organizations.
- h) the development of the standardized systems for air navigation, communications, aeronautical information, and control of the air traffic;
- i) the coordination of international schedules for air transportation, the coordination of common aviation policy and the coordination of common policy for aeronautical tariffs and their collection;
- j) the development and coordination, in consideration of international standards, rules and procedures for measures and actions to prevent illegal acts against civil aviation.

INTERSTATE BODIES

Article 8

The Contracting States will establish:

- The Council of Aviation and Utilization of Airspace consisting of authorized representatives of Contracting States (including representatives of Ministries or Committees of Defense) and representatives of the Supreme Command of the Military Forces of The CIS. The council will conduct its activities based on the principle of consensus.
- The Interstate Aviation Committee as a permanent operating executive body which is authorized to implement this Agreement, facilitate operation of the Council and the implementation of its decisions. Contracting States will participate in the Committee through their authorized representatives.

Article 9

The Interstate Aviation Committee performs the functions of the Committee for Utilization Air Space and Control of Air Traffic, the Committee for the State Supervision of Flight Safety, the Ministry of Civil Aviation (to the extent agreed by contracting states) and fulfillment of the international obligations of the former USSR in field of aviation and membership in International Civil Aviation Organization (ICAO). The conclusion of new international agreements, which affect the interests of all contracting states, must receive the agreement of the Council on Aviation and Utilization of Air Space.

Article 10

The Interstate Aviation Committee has legal rights on the territory of any participating country in accordance with the national legislation of that country and to the extent it is necessary to carry out its activities within the terms of the Agreement.

Article 11

The Interstate Aviation Committee may have within its structure scientific -research organizations and temporary scientific research teams, expertise and consulting departments.

Article 12

The Interstate Aviation Committee has under its authority the organizations for air traffic control, aeronautical information, certification and inspection.

Article 13

The financing of the Interstate Aviation Committee, its bodies and programs will come from fees payable by aviation enterprises, payments from Contracting States, fees for air navigation services, fees for certification, and from other earnings. The payment share for each Contracting State will be defined in proportion to the aggregate volume of air transportation of the Contracting state. The financing procedures will be determined by the Contracting States.

CONCLUDING ARTICLES

Article 14

Contracting States accept the existing rights and privileges of civil aviation employees and the staff of the International Aviation Committee and its organizations and their validity on the territory of all Contracting States.

Article 15

Any disputes and disagreements between two or more Contracting States which can not be solved by negotiation shall, at the request of any state involved in this disagreement, be solved by Council for Aviation and Utilization of the Air Space. If any disagreement cannot be solved by the Council, it shall be referred to the Heads of Government of the Contracting States.

Article 16

The Contracting States may determine the legal and economic measures to be imposed in case if any of them do not fulfill the obligations of this Agreement.

Article 17

The validity of the Agreement is extended to the territories of participating states and to the regions of open airspace where, according to international agreements, air traffic services were delegated to the former USSR.

Article 18

The Agreement is open for membership by any state which is prepared to accept the Agreement. The acceptance of new members to the Agreement is to be through the concurrence of all existing members. The Council on Aviation and Utilization of Airspace will decide the on the status of accepted members and the status of observers presented by other states. Any participating country has the right to leave the agreement by notifying the Council on Aviation and Utilization of Air Space twelve months before the actual departure date.

Article 19

Any amendments and additions to the Agreement must be approved by all Contracting States.

Article 20

The Contracting States have the right to make bilateral and multilateral agreements which are not contrary to this Agreement and they must inform Interstate Aviation Committee.

Article 21

Contracting States agree that the headquarters of the Interstate Aviation Committee will be situated in Moscow. The location of other constituent organizations of the Committee will be determined by agreement between the Contracting States.

Article 22

The determination of property titles of the former USSR Ministry of Civil Aviation is to be by separate agreement between Contracting States.

Article 23

This agreement becomes valid from the moment of signature of at least three authorized representatives of the Contracting States.

The original text of the agreement is to be deposited with the Government of Russian Federation and certified copies are to be sent to the Governments of all Contracting States.

For and on the behalf of the states the Agreement was signed by:

For the Azerbaijan Republic	G. Gasanov	Prime Minister
For the Republic of Armenia	G. Bagratyan	First Deputy Prime Minister
For the Republic of Belarus	V. Kebitch	Chairmen of the Council of Ministers
For the Republic of Georgia	M. Omanidze	First Deputy Prime Minister
For the Republic of Kazakhstan	B. Tursunbaev	Deputy Prime Minister
For the Republic of Kirgizstan	A. Iyordan	Secretary of the Council of Ministers
For the Republic of Moldova	A. Sangely	First Deputy Prime Minister
For the Russian Federation	E. Gaydar	Deputy of the Chairmen of Government
For the Republic of Tajikistan	I. Khaev	Prime Minister
For Turkmenistan	Kh. Akhmedov	Deputy Chief of the Government
For the Republic of Uzbekistan	Sh. Mirsaidov	Vice-President
For Ukraine	K. Masik	First Deputy Prime Minister

**PRESIDENTIAL DECREE
ON THE MEASURES FOR ENSURING SAFETY OF THE AIR TRANSPORT OF
THE REPUBLIC OF KAZAKHSTAN**

For the purpose of implementing the Agreement on Civil Aviation and Utilisation of Air Space, ensuring safety of air transport, and further improving the safety of aviation equipment and its competitiveness on the world market,

THE PRESIDENT OF THE REPUBLIC OF KAZAKHSTAN DECREES:

1. that when investigating air accidents, certificating aircraft, and certifying international and categorised aerodromes and aerodrome equipment, the designers and manufacturers of aviation equipment, State's Entities for Civil Aviation and the aviation industry must follow the rules validated by the Council of the States participating in the Agreement on the Civil Aviation and Utilisation of Air Space;
2. the delegation of the conduct of investigations of air incidents that affect the interests of two or more countries, the certification of aircraft, the certification of designers and manufacturers of aviation equipment, certifying enterprises providing international transportation, licensing international and categorised aerodromes and their facilities and issuing of appropriate documents to the Interstate Aviation Committee on the territory of the Republic of Kazakhstan, taking into consideration recommendations of the International Civil Aviation Organisation and the laws of the Republic of Kazakhstan;
3. the confirmation as authorised representatives of the Republic of Kazakhstan at the Council of the states participating in the Agreement on Civil Aviation and Utilisation of Air Space which was concluded on the December 1991, at Minsk
 - the Head of the Kazakhstan Administration of Civil Aviation, and
 - the Commander of Air Forces of the Republic of Kazakhstan;
4. and that the Government of the Republic of Kazakhstan, regional, municipal and local administrations shall promote and assist the Interstate Aviation Committee during investigation of air incidents and remedying the consequences.

The President of the Republic of Kazakhstan
N.A.Nazarbaev

Almaty city 31st of August 1992.
#899

**APPENDIX TO
CHAPTER 3**

Appendix-3.3.3 (1) Geographic Distribution of Foreign Trade

Name of Contry	(Millions of US Dollars)						Sum of ((3) .. (6))
	1992r		1994r		1995 (Jan.-Nov.)r		
	Export (1)	Import (2)	Export (3)	Import (4)	Export (5)	Import (6)	
Total	1489.3	468.8	3238.7	3493.8	4559.3	3466.7	14750.5
Russian Federation			1438.3	1262.3	1919.5	1660.0	6288.1
East Europe	267.9	71.1	448.0	394.8	434.9	320.3	1598.0
Austria	50.2		12.5	39.5	12.0	50.8	114.8
Belarussia			43.9	64.1	55.6	71.5	235.1
Bulgaria	16.8	1.7	12.3	16.5	5.4	7.1	41.3
Hungary	19.4	27.1	48.9	31.2	8.1	20.5	188.7
Latvia			14.5	10.3	33.1	11.1	69.0
Lithuania			13.4	16.5	109.8	17.0	156.7
Liechtenstein	23.3		8.0	5.6	8.2	0.9	22.7
Luxembourg	28.5		7.9	0.3	7.2	1.5	16.9
Poland	48.0	7.9	55.7	23.4	36.1	19.4	134.6
Roumania	4.9	4.9	10.9	16.9	0.4	2.2	38.4
Slovakia			13.7	4.2	18.5	6.7	43.1
Czechia	62.9	2.6	70.4	29.4	23.5	21.5	144.8
Yugoslavia	13.9	26.9	0.7	4.9		1.9	7.5
Ukraine			127.9	119.8	98.0	78.6	424.3
Moldova			3.2	8.1	2.3	3.8	17.4
Estonia			3.6	3.4	15.6	5.3	27.9
SAR			0.5	0.7	1.1	0.5	2.8
Central Asia			211.8	839.2	307.6	514.2	1672.8
Uzbekistan			117.2	269.4	149.9	251.3	787.8
Kyrgystan			59.8	91.1	70.6	27.2	248.7
Tajikistan			9.5	16.2	38.4	11.1	75.2
Turkmenistan			25.3	262.5	48.7	224.6	561.1
Asia (China & Mongolia)	231.8	204.9	150.4	92.2	282.1	92.9	617.6
China	228.7	204.6	148.9	69.8	279.8	32.7	531.2
Mongolia	3.1	0.3	1.5	22.4	2.3	60.2	86.4
Far East Asia	93.3	4.9	99.2	129.8	138.2	54.3	421.5
Japan	48.4	4.1	27.1	53.2	34.1	8.1	122.5
Korea	12.6	0.2	60.0	67.0	81.3	48.8	249.1
Hong Kong	5.7	0.6	3.9	7.9	2.6	4.6	19.0
Taiwan			4.6	1.0	19.3	0.7	25.6
Korea of DPR	16.6		3.6	0.7	0.9	0.1	5.3
Western Asia	122.5	16.0	144.1	150.5	149.1	180.4	624.1
Afghanistan	3.0	2.4	1.8	0.3	2.8	0.1	5.0
Iran	0.1	0.1	11.8	10.6	45.8	13.1	81.3
Pakistan			4.8	2.2	2.8	1.8	11.6
Israel	8.0	10.0		26.4	0.1	13.2	39.7
Jordan	0.0						0.0
Turkey	16.2	3.5	49.1	87.2	66.5	117.8	319.8
Arab Emirates				4.4	0.2	4.5	9.1
Saudi Arabia							0.0
Cyprus	32.6		1.4	2.8	10.5	4.1	18.8
Armenia			1.0	1.3	0.2	2.5	5.0
Syria			0.1	0.7			0.8
Azerbaijan			46.3	11.7	20.0	21.9	99.9
Georgia			1.3	2.9	0.2	2.2	6.6
Oman	70.6		26.5				26.5
Other Asia	11.7	9.9	26.9	50.6	47.6	30.6	155.7
India	0.7	9.2	7.3	33.5	0.5	13.4	54.7
Indonesia				2.0			2.0
Malaysia					3.1		3.1
Singapore	0.1			14.0	1.1	12.7	27.8
Thailand	3.7	0.7	16.4	1.1	39.8	0.3	57.6
Bangladesh						4.2	4.2
Vietnam			2.8		2.7		5.5
Philippine	7.2		0.4		0.4		0.8
West Europe	655.5	95.9	616.3	614.8	1161.4	492.5	2885.0
Great Britain	91.5	18.6	64.9	66.4	96.8	75.6	303.7
Germany	119.3	18.4	73.2	293.6	160.0	192.4	719.2
Greece	0.3	0.8	3.0	4.6	2.0	2.1	11.7
Denmark	3.0		0.1	4.9		2.5	7.5
Ireland	0.2		1.9	7.0	71.6	7.7	88.2
Iceland						0.2	0.2
Spain	1.3		3.2	6.1	1.4	6.3	17.0
Italy	37.7	2.3	42.3	60.7	114.6	29.1	246.7
Netherlands	51.8	0.5	247.8	31.1	468.5	29.6	777.0
Norway	2.8		2.4	1.6	1.2	0.1	5.3
France	18.5	6.6	7.2	30.6	11.3	22.6	71.7
Switzerland	100.9	13.7	130.0	65.3	170.8	56.6	422.7
Sweden	175.1	9.9	10.0	11.7	2.8	14.2	38.7
Belgium	9.0	0.1	6.4	12.8	14.5	6.8	40.5
Portugal	1.4			2.5		0.1	2.6
Monaco			3.6			22.4	26.0
Britain			3.7				3.7
Finland	42.7	25.0	16.6	15.9	45.9	24.2	102.6

Appendix-3.3.3 (1) Geographic Distribution of Foreign Trade

(Millions of US Dollars)

Name of Contry	1992r		1994r		1995 (Jan.-Nov.)r		Sum of ((3)..(6))
	Export (1)	Import (2)	Export (3)	Import (4)	Export (5)	Import (6)	
North America	93.8	6.9	87.9	124.2	87.4	77.7	387.2
Canada	0.2	1.0	12.9	14.9	1.6	7.9	37.3
USA	93.6	5.9	75.0	109.3	44.2	69.8	298.3
Bermudes							0.0
Bahamas					51.6		51.6
Australia and, Central and South America	21.9	59.2	0.2	25.7	6.6	39.8	71.3
Australia	0.5	29.8	0.2	7.5	0.1	2.9	10.7
Guatemala					2.1		2.1
New Zealand				1.7			1.7
Brazil				4.7		0.1	4.8
Cuba	18.9	29.3		9.3	0.2		9.5
Peru					0.3		0.3
Chile	0.3			2.5		36.2	38.7
Panama	2.2				2.9	0.6	3.5
Ecuador		0.1					0.0
Africa	0.0	0.0	0.2	1.4	8.8	0.3	10.7
Egypt				1.4	0.2	0.3	1.9
Mauritania					5.3		5.3
Morocco			0.2		3.3		3.5
Others	1.0	0.0	5.0	8.3	7.1	3.7	24.1
Other Countries	1.0		5.0	8.3	7.1	3.7	24.1

Source: Committee of Statistics and Analysis

Appendix-3.3.3 (2) Tourists Record for 1995

	Non-Residents	Residents
Kazakhstan Republic	20272	123699
Aknoles	11	4459
Aktyubinsk	-	1404
Almaty	801	2143
Atyrau	-	1165
East-Kazakhstan	343	5827
Zhambul	249	870
Zhezkazgan	-	313
West-Kazakhstan	-	1023
Karakanda	-	8026
Kzyl-Orda	-	73
Kokchetau	1132	1267
Kustanay	-	3175
Mangistau	-	2246
Pavlodar	-	12701
North-Kazakhstan	2	600
Senipelatinsk	9363	6314
Taldykorgan	-	1474
Turgai	-	100
South-Kazakhstan	52	2970
Almaty City	8319	67559

Source: Committee of Statistics and Analysis

Appendix-3.3.3 (3) Tourists Record by Destination Country for 1995

Residence	Non-Resident	Resident People	Total	Residence	Non-Resident	Resident People	Total
Total	20272	123699	143971	Other Asia	77	1881	1958
Russia	12419	7378	19797	India	61	1741	1802
East Europe	375	3928	4303	Indonesia	2	2	4
Austria	181		181	Malaysia	7	15	22
Belorussia		315	315	Singapore	2		2
Bulgaria	29	228	257	Sri-Lanka	5		5
Hungary	42	19	61	Thailand		123	123
Latvia	4		4	West Europe	3814	13256	16270
Lithuania	3	18	21	Great Britain	647	252	899
Lichtenstein	4		4	Germany	883	12322	13205
Luxemburg	3		3	Greece	51	200	251
Macedonia	3		3	Denmark	27		27
Poland	15	3314	3329	Ireland	17		17
Romania	24		24	Spain	22	69	91
Slovakia	13		13	Italy	303	91	394
Czechia	28	17	45	Malta	2	3	5
Croatia	1		1	Monaco	1		1
Yugoslavia	23		23	Netherlands	296	8	304
Ukraine	2	17	19	Norway	13		13
Central Asia	54	1038	1092	Finland	122	35	157
Uzbekistan	54	158	212	France	388	227	615
Kirgizstan		865	865	Switzerland	64	4	68
Turkmenistan		15	15	Sweden	116	6	122
China and Mongolia	57	25059	25116	Belgium	56	1	57
China	54	25059	25113	Portugal	6		6
Mongolia	3		3	Canary Islands		24	24
Fer East Asia	1163	42	1205	Meditarenean ..		8	8
Japan	873	8	881	Sicily		6	6
South Korea	263	30	293	North America	1783	43	1826
Honkong	27	4	31	Canada	114	43	157
Western Asia	1098	71039	72137	USA	1669		1669
Afghanistan	275		275	Australia and other America	222	22	244
Irak	1	24	25	Argentina	8		8
Iran	16	4220	4236	Australia	200		200
Pakistan	122	6700	6822	Guatemala	1		1
Israel	86	16	102	Dominican Rep.	3		3
Jordan	1	100	101	Mexico	2	3	5
Turkey	512	26544	27056	New Zealand	7		7
United Arab Emirates	14	32383	32397	Brazilia	1		1
Saudi Arabia	22	26	48	Costa Rica		7	7
Bahrain(Quatar)	2		2	Uruguay		12	12
Lebanon	9		9	Africa	10	13	23
Cyprus	14	24	38	Egypt	3	13	16
Armenia	24		24	Sudan	6		6
Syria		1802	1802	South Africa	1		1

Source: Committee of Statistics and Analysis

Appendix-3.3.3 (4) Assumed Weight for Distribution of Foreign Travelers

Region	Foreign trade Mil. US\$ (A)	Component ratio (B)	Tourist Peoples (C)	Component ratio (D)	SQRT(BxD) (E)	Weight (F)
Russia	6280.1	0.4258	19797	0.1375	0.2420	0.3197
East Europe	1598.0	0.1084	4303	0.0299	0.0569	0.0752
Central Asia	1672.8	0.1134	1092	0.0076	0.0293	0.0381
China and Mongolia	617.6	0.0419	25116	0.1745	0.0855	0.1129
Fer East Asia	421.5	0.0286	1205	0.0084	0.0155	0.0204
Western Asia	624.1	0.0423	72137	0.5810	0.1456	0.1924
Other Asia	155.7	0.0106	1958	0.0136	0.0120	0.0158
Western Europe	2885.0	0.1956	16270	0.1130	0.1481	0.1964
North America	387.2	0.0263	1826	0.0127	0.0182	0.0241
Australia, Central & South America	71.3	0.0048	244	0.0017	0.0000	0.0000
Africa	10.7	0.0007	23	0.0002	0.0003	0.0004
Others	24.1	0.0016	1	0.0000	0.0001	0.0001
Total	14746.1	1.0000	143972	1.0000	0.7570	1.0000

Appendix-3.3.3 (5) World Growth of Real GDP per capita

	1994 GDP per capita (US\$)	1966 -1973	1974 -1990	1991 -1994	1994	1995 esti- mate	1996-2005 forecast
World	4560	3.0	1.2	-0.1	1.3	1.4	2.0
High-income	23980	3.8	2.1	1.0	2.3	1.8	2.4
Industrial countries	24645	3.8	2.1	0.9	2.3	1.8	2.4
G-7 countries	25650	3.8	2.2	1.0	2.2	1.6	2.4
United States	25000	1.9	1.6	1.4	3.0	2.1	..
Japan	36730	8.7	3.2	1.0	0.2	0.1	..
G-4 Europe	20770	3.8	2.1	0.5	2.5	2.2	..
Germany (a)	22445	3.9	2.0	0.7	2.3	1.5	..
Other industrial	19440	4.0	1.7	0.6	2.5	2.7	2.4
Other high-income	14900	6.0	3.5	5.1	4.9	4.5	4.4
Low- and middle-income	1110	4.3	1.6	-0.7	0.8	2.3	3.7
Excluding Eastern Europe and former Soviet Union	1040	3.5	1.7	2.9	3.6	3.2	3.7
Asia	650	3.3	4.9	6.0	6.9	6.7	5.8
EAST Asia and Pacific	680	5.1	6.2	8.0	8.4	8.0	6.8
China	440	5.7	7.1	11.6	11.0	9.2	..
Korea, Rep. of	8560	8.8	7.8	5.6	6.9	8.3	..
Indonesia	920	3.9	4.7	5.8	5.7	6.0	..
South Asia	320	1.3	2.7	1.8	3.7	3.6	3.7
India	320	1.4	2.7	1.7	4.3	4.0	..
Latin America and the Caribbean	3460	3.7	0.4	1.6	2.9	-0.7	2.2
Brazil	3490	7.1	1.4	0.5	4.0	2.4	..
Mexico	4240	3.5	0.9	0.4	1.5	-8.7	..
Argentina	8290	2.7	-0.9	6.1	6.1	-4.3	..
Europe and Central Asia	2110	5.8	2.3	-9.3	-8.7	-0.8	3.7
Russian Federation (b)	2540	5.9	2.8	-10.6	-12.0	-3.3	..
Turkey	2150	3.5	2.1	1.2	-7.2	3.3	..
Poland	2370	6.5	-0.6	1.6	5.1	6.9	..
Middle East and North America	1600	5.7	-1.8	-0.3	-0.3	0.1	0.4
Iran and Islamic Rep.	1010	7.0	-4.0	2.4	-0.1	0.4	..
Algeria	1550	3.3	1.3	-2.9	-3.2	1.2	..
Egypt	750	1.7	4.7	-1.0	0.0	0.5	..
Sub-Saharan Africa	490.0	2.0	-0.7	-2.2	-1.4	1.1	0.9
South Africa	2970.0	2.1	-0.5	-2.4	0.1	1.2	..
Nigeria	330.0	3.8	-1.7	-0.1	-0.3	-1.8	..

Note: Growth rates over intervals are computed using least squares method.

a. Data prior to 1991 cover Federal Republic of Germany.

b. Data prior to 1992 cover former Soviet Union.

Source: World Bank data and staff estimates.

Assumed Growth of real GDP per capita (%) for This Study

Region	1996-2005 Assumed
Kazakhstan	4.8
Russia	4.3
East Europe	4.3
Central Asia	4.3
China	7.3
Mongolia	4.3
Far East Asia	2.8
Western Asia	3.5
Other Asia	5.0
Western Asia	2.8
U.S.A.	2.8
Australia	2.7
Africa	2.7
Others	3.5

Note: Economist determined the growth rates of each region for this study.

Appendix-3.3.3 (6) World Population Prospects

Name of Contry	Population (Thousands)				Annual growth Rate (%)		
	1990	2000	2010	2025	1990-2000	2000-2010	2010-2025
Former USSR	281344	296962	317385	344457	0.54	0.67	0.55
East Europe	128487	132224	137312	141947	0.29	0.38	0.22
Austria	7712	7975	8146	8263	0.34	0.21	0.10
Bulgaria	8991	8897	8902	8802	-0.11	0.01	-0.08
Hungary	10553	10507	10560	10396	-0.04	0.05	-0.10
Luxemburg	373	400	418	428	0.70	0.44	0.16
Poland	38180	39508	41586	43788	0.34	0.51	0.34
Roumania	23207	24039	25100	26270	0.35	0.44	0.30
Old Czechoslovak	15662	16298	17139	17919	0.40	0.50	0.30
Old Yugoslavia	23809	24600	25453	26081	0.33	0.34	0.16
Asia (China & Non)	1153470	1309743	1409946	2E+06	1.28	0.74	0.59
China	1153470	1309743	1409946	2E+06	1.28	0.74	0.59
Far East Asia	194394	207017	215221	217073	0.63	0.39	0.06
Japan	123537	128066	130570	127034	0.36	0.19	-0.18
Korea	43377	46897	49267	50289	0.78	0.49	0.14
Hong Kong	5709	6120	6341	6411	0.70	0.36	0.07
Korea of DPR	21771	25934	29035	33339	1.77	1.14	0.93
Western Asia	280801	372204	473367	626722	2.86	2.43	1.89
Afganistan	16556	26767	33539	45932	4.92	2.28	2.10
Iran	50267	77929	104118	144625	2.95	2.94	2.21
Pakistan	118122	154794	197672	259562	2.74	2.48	1.83
Israel	4660	6336	7136	8146	3.12	1.20	0.89
Turkey	55991	68165	78953	92081	1.99	1.48	1.09
Saudi Arabia	14870	20667	27796	40426	3.35	3.01	2.53
Syria	12335	17546	24153	35250	3.59	3.25	2.55
Other Asia	1348561	1624984	1894642	2E+06	1.88	1.55	1.09
India	846191	1010673	1189396	1E+06	1.87	1.56	1.06
Indonesia	184283	217998	245287	283313	1.69	1.19	0.97
Malaysia	17891	22263	26138	31274	2.21	1.62	1.20
Singapore	2710	2976	3158	3309	0.94	0.60	0.31
Thailand	54677	61202	66738	72264	1.13	0.87	0.53
Bangladesh	113684	144265	177491	223252	2.41	2.09	1.54
Vietnam	66688	81516	97097	116958	2.03	1.76	1.25
Philippine	62437	76091	89337	105147	2.00	1.62	1.09
West Europe	368535	379080	385813	385959	0.28	0.18	0.00
Brita	57411	58810	59716	60251	0.24	0.15	0.06
Germany	79479	82583	84112	83877	0.38	0.18	-0.02
Greece	10123	10324	10348	10103	0.20	0.02	-0.16
Denmark	5140	5245	5270	5140	0.20	0.05	-0.17
Ireland	3583	3436	3502	3583	-0.19	0.19	0.15
Iceland	255	283	310	344	1.05	0.92	0.70
Spain	38959	39640	40465	40613	0.17	0.21	0.02
Italy	57663	58148	58297	56237	0.08	0.03	-0.24
Netherland	14943	16073	17081	17673	0.73	0.56	0.26
Norway	4246	4485	4692	4916	0.55	0.45	0.31
France	56710	58792	60034	60785	0.36	0.21	0.08
Switzerland	6712	7156	7455	7702	0.64	0.41	0.22
Sweden	8566	8976	9257	9529	0.47	0.31	0.19
Belgium	9987	10084	10090	9988	0.12	0.01	-0.12
Portugal	9860	9932	10068	10125	0.06	0.14	0.04
Finland	4992	5113	5196	5173	0.26	0.16	-0.03
North America	276614	305749	330159	360363	1.01	0.77	0.59
Canada	26639	30425	34070	38356	1.34	1.14	0.79
USA	249975	275324	296089	322007	0.97	0.73	0.56
Australia and Central and South America	225390	262224	295913	337922	1.52	1.22	0.89
Australia	17086	19595	22030	25210	1.38	1.18	0.98
New Zealand	3392	3710	3987	4279	0.90	0.72	0.47
Brazil	149042	172777	194002	219673	1.49	1.17	0.83
Cuba	10608	11504	12155	12993	0.81	0.55	0.45
Peru	21550	26276	31047	37350	2.00	1.68	1.24
Chile	13173	15272	17102	19774	1.49	1.19	0.94
Equador	10547	13090	15510	18643	2.18	1.71	1.23
Africa							
Egypt	52426	64810	77681	93536	2.14	1.83	1.25
Morocco	25061	31719	38724	47477	2.38	2.02	1.37
World	5295300	6228254	7149499	8E+06	1.64	1.39	1.14
Asia	3117842	3691579	4213563	5E+06	1.70	1.33	1.01
North and Central Asia							
Asia	423688	484302	538993	610122	1.35	1.07	0.83
South America	294115	344461	391605	451947	1.59	1.29	0.96
Europe	509041	523749	536253	541784	0.29	0.24	0.07
Africa	642500	856154	1116253	2E+06	2.91	2.69	2.35
Oceania	26690	30967	35366	41342	1.50	1.34	1.05

Source: " World Population Prospects, United Nations, 1998 "

Appendix-3.3.3 (7) Projection of Growth Rates of Main Socio-Economic Indicators by Region

		GDP per capita				Population				GDP (%)			
		1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
		-2000	-2005	-2010	-2020	-2000	-2005	-2010	-2020	-2000	-2005	-2010	-2020
Kazakhstan	Low	4.3	4.3	3.8	3.3					4.59	5.23	4.87	4.29
	Medium	4.8	4.8	4.3	3.8	0.28	0.89	1.03	0.96	5.09	5.73	5.37	4.79
	High	5.2	5.2	4.8	4.3					5.49	6.13	5.88	5.30
Russia	Low	3.8	3.8	3.5	3.0					4.36	4.49	4.19	3.56
	Medium	4.3	4.3	3.8	3.3	0.54	0.67	0.67	0.55	4.87	5.00	4.49	3.87
	High	4.8	4.8	4.3	3.8					5.37	5.50	5.00	4.37
East Europe	Low	3.8	3.8	3.5	3.0					4.19	4.19	3.89	3.23
	Medium	4.3	4.3	3.8	3.3	0.29	0.38	0.38	0.22	4.69	4.69	4.19	3.53
	High	4.8	4.8	4.3	3.8					5.19	5.28	4.69	4.03
Central Asia	Low	3.8	3.8	3.5	3.0					4.36	4.49	4.19	3.56
	Medium	4.3	4.3	3.8	3.3	0.54	0.67	0.67	0.55	4.87	5.00	4.49	3.87
	High	4.8	4.8	4.3	3.8					5.37	5.50	5.00	4.37
China	Low	7.4	7.4	6.9	6.4					8.77	8.13	7.69	7.03
	Medium	7.9	7.9	7.4	6.9	1.28	0.74	0.74	0.59	9.28	8.70	8.19	7.53
	High	8.4	8.4	7.9	7.4					9.79	9.20	8.70	8.03
Mongolia	Low	3.8	3.8	3.5	3.0					4.36	4.49	4.19	3.56
	Medium	4.3	4.3	3.8	3.3	0.54	0.67	0.67	0.55	4.87	5.00	4.49	3.87
	High	4.8	4.8	4.3	3.8					5.37	5.50	5.00	4.37
Far East Asia (Japan)	Low	2.5	2.5	2.0	1.7					3.15	2.90	2.40	1.76
	Medium	2.8	2.8	2.3	2.0	0.63	0.39	0.39	0.06	3.45	3.20	2.70	2.06
	High	3.1	3.1	2.6	2.3					3.75	3.50	3.00	2.36
Western Asia	Low	3.8	3.8	2.5	2.0					5.94	5.51	4.39	3.93
	Medium	3.5	3.5	3.0	2.5	2.86	2.43	2.43	1.89	6.46	6.02	5.51	4.44
	High	4.0	4.0	3.5	3.0					6.97	6.53	6.02	4.95
Other Asia	Low	4.5	4.5	4.0	3.5					6.47	6.12	5.81	4.63
	Medium	5.0	5.0	4.5	4.0	1.88	1.55	1.55	1.09	6.98	6.62	6.12	5.13
	High	5.5	5.5	4.0	3.5					7.49	7.13	6.61	4.63
Western Europe (Germany)	Low	2.5	2.5	2.2	1.9					2.79	2.68	2.38	1.90
	Medium	2.8	2.8	2.5	2.2	0.28	0.18	0.18	0.00	3.09	2.98	2.68	2.20
	High	3.1	3.1	2.8	2.5					3.39	3.28	2.98	2.50
North America (U.S.A)	Low	2.5	2.5	2.2	1.9					3.53	3.29	2.99	2.50
	Medium	2.8	2.8	2.5	2.2	1.01	0.77	0.77	0.59	3.83	3.59	3.29	2.80
	High	3.1	3.1	2.8	2.5					4.14	3.89	3.59	3.10
Australia	Low	2.4	2.4	2.1	1.8					3.96	3.65	3.34	2.70
	Medium	2.7	2.7	2.4	2.1	1.52	1.22	1.22	0.89	4.27	3.95	3.65	3.01
	High	3.0	3.0	2.7	2.4					4.57	4.25	3.95	3.31
Africa	Low	2.4	2.4	2.1	1.8					4.59	4.27	3.97	3.07
	Medium	2.7	2.7	2.4	2.1	2.14	1.83	1.83	1.25	4.90	4.58	4.27	3.37
	High	3.0	3.0	2.7	2.4					5.21	4.88	4.58	3.68
Others	Low	3.8	3.8	2.5	2.0					4.69	4.43	3.92	3.16
	Medium	3.5	3.5	3.0	2.5	1.64	1.39	1.39	1.14	5.19	4.94	4.43	3.67
	High	4.0	4.0	3.5	3.0					5.70	5.44	4.94	4.17

Note: GDP per capita is assumed based on the data of "Global Economic Prospects and Developing Countries, The World Bank 1996".
Population Growth Rate is estimated based on "World Population Prospects, United Nations, 1990"

Appendix-3.3.3 (8) Projection of Population by Region in Kazakhstan

Region	Population (Thousands)				Annual growth rate (%)			
	1995	2000	2005	2010	1995 -2000	2000 -2005	2005 -2010	2010 -2020
Almaty	2123.4	2181.2	2269.7	2365.6	0.54	0.80	0.83	0.79
West Kaz.	669.0	695.0	735.3	781.6	0.77	1.13	1.23	1.16
Aktyubinsk	749.1	769.5	816.8	873.8	0.54	1.20	1.36	1.26
Karagand	1258.0	1246.5	1272.1	1302.2	-0.18	0.41	0.47	0.42
Kustanay	1049.0	1040.1	1058.2	1080.4	-0.17	0.35	0.42	0.36
Atyrau	452.9	477.4	515.9	565.2	1.06	1.56	1.84	1.68
East Kaz.	932.5	927.1	946.2	972.0	-0.12	0.41	0.54	0.45
South Kaz.	1983.3	2108.2	2292.7	2508.4	1.23	1.69	1.81	1.73
Zhanbul	1026.3	1038.1	1085.4	1148.0	0.23	0.90	1.13	0.99
Akmola	838.8	850.7	895.4	949.8	0.28	1.03	1.19	1.09
Semipalatinsk	801.8	786.3	803.8	827.2	-0.39	0.44	0.58	0.49
Kokshetau	647.9	629.7	640.1	658.1	-0.57	0.33	0.56	0.42
Pavlodar	936.5	934.6	966.4	1003.1	-0.04	0.67	0.75	0.69
North Kaz.	593.0	566.4	566.0	571.4	-0.91	-0.01	0.19	0.07
Kzyl Orda	667.7	693.8	749.2	812.0	0.77	1.55	1.62	1.56
Zhezkezgan	480.1	487.5	510.5	536.8	0.31	0.93	1.01	0.95
Turgai	306.9	306.1	320.4	338.6	-0.05	0.92	1.11	0.99
Mangistau	339.9	349.0	370.9	398.6	0.53	1.22	1.45	1.31
Taldykorgan	712.7	713.4	744.1	785.9	0.02	0.85	1.10	0.95
Total	16568.8	16800.6	17559.1	18478.7	0.28	0.89	1.03	0.93

Source: Scientific Research Institute of Economy and Marketing, Ministry of Economy
 * : simply applied the average annual growth rate during 2000-2010(10 years),
 meaning a slowdown of the growth rate,

Appendix-3.3.3 (9) Projection of Population, GDP per capita and GDP in Kazakhstan

Unit: Million for GDP, Thousand for Population and GDP per capita

Region	Item	Forecast by Scientific Research Institute of Economy and Marketing									
		1995	2000	2005	2010	2020	Annual average growth rate(%)				
							1995-2000	2000-2005	2005-2010	2010*-2020	
Almaty	GDP(Tenge)	150680	181496	219699	276667	369683	3.79	3.89	4.72	2.94	
	GDP/capita	71	83	97	117	144	3.24	3.07	3.86	2.13	
	Population	2123	2181	2270	2366	2561	0.54	0.80	0.83	0.79	
West Kaz.	GDP(Tenge)	28968	34055	40294	51038	76319	3.29	3.42	4.84	4.11	
	GDP/capita	43	49	55	65	87	2.50	2.26	3.57	2.91	
	Population	669	695	735	782	877	0.77	1.13	1.23	1.16	
Aktjubins.	GDP(Tenge)	44422	50787	58074	72875	104334	2.71	2.72	4.65	3.65	
	GDP/capita	59	69	71	83	105	2.16	1.50	3.24	2.37	
	Population	749	770	817	874	990	0.54	1.20	1.36	1.26	
Karagand	GDP(Tenge)	93847	103831	119323	145977	204762	2.04	2.82	4.11	3.44	
	GDP/capita	75	83	94	112	151	2.23	2.40	3.63	3.01	
	Population	1258	1247	1272	1302	1357	-0.18	0.41	0.47	0.42	
Kustanay	GDP(Tenge)	83605	87264	97672	118628	160900	0.86	2.28	3.96	3.09	
	GDP/capita	80	84	92	110	144	1.03	1.93	3.53	2.73	
	Population	1049	1040	1058	1080	1120	-0.17	0.35	0.42	0.36	
Alyrau	GDP(Tenge)	39591	45165	56285	71046	109090	2.91	4.04	4.77	4.38	
	GDP/capita	88	97	109	126	163	1.83	2.44	2.87	2.66	
	Population	453	477	516	565	668	1.06	1.56	1.84	1.68	
East Kaz.	GDP(Tenge)	78050	85386	98121	118878	165128	1.81	2.82	3.91	3.34	
	GDP/capita	84	92	104	122	162	1.93	2.40	3.35	2.88	
	Population	933	927	946	972	1017	-0.12	0.41	0.54	0.45	
South Kaz.	GDP(Tenge)	35303	37737	42873	51171	69232	1.34	2.59	3.60	3.07	
	GDP/capita	18	18	19	20	23	0.11	0.88	1.76	1.32	
	Population	1983	2108	2293	2508	2978	1.23	1.69	1.81	1.73	
Zhaobul	GDP(Tenge)	23297	26160	30391	40524	62635	2.35	3.04	5.92	4.45	
	GDP/capita	23	25	28	35	49	2.11	2.13	4.74	3.43	
	Population	1026	1038	1085	1148	1267	0.23	0.90	1.13	0.99	
Akmola	GDP(Tenge)	41772	45598	54978	70285	108095	1.77	3.81	5.04	4.40	
	GDP/capita	50	54	61	74	102	1.48	2.75	3.80	3.28	
	Population	839	851	895	950	1058	0.28	1.03	1.19	1.09	
Semipalat	GDP(Tenge)	23092	25712	30786	37638	54970	2.17	3.67	4.10	3.86	
	GDP/capita	29	33	38	46	63	2.57	3.21	3.51	3.36	
	Population	802	786	804	827	868	-0.39	0.44	0.58	0.49	
Kokchetau	GDP(Tenge)	34144	35893	42311	51003	72310	1.00	3.34	3.81	3.55	
	GDP/capita	53	57	66	78	105	1.58	3.01	3.23	3.12	
	Population	648	630	640	658	686	-0.57	0.33	0.56	0.42	
Pavodar	GDP(Tenge)	120621	130377	149502	179254	245900	1.57	2.78	3.70	3.21	
	GDP/capita	129	140	155	179	229	1.61	2.09	2.93	2.51	
	Population	937	935	966	1003	1074	-0.04	0.67	0.75	0.69	
North Kaz.	GDP(Tenge)	18798	19594	23319	28627	40896	1.24	3.12	4.19	3.63	
	GDP/capita	32	35	41	50	71	2.17	3.14	3.99	3.56	
	Population	593	566	566	571	575	-0.91	-0.01	0.19	0.07	
KzylOrda	GDP(Tenge)	14956	18316	23899	28907	45519	4.14	5.47	3.88	4.65	
	GDP/capita	22	26	32	36	48	3.34	3.86	2.22	3.03	
	Population	668	694	749	812	948	0.77	1.55	1.62	1.56	
Zhekszagan	GDP(Tenge)	41193	47629	57431	70482	104065	2.95	3.81	4.18	3.97	
	GDP/capita	86	98	113	131	176	2.63	2.86	3.14	3.00	
	Population	480	488	511	537	590	0.31	0.93	1.01	0.95	
Turgai	GDP(Tenge)	12215	11959	13457	16558	22796	-0.36	2.32	4.23	3.25	
	GDP/capita	40	39	42	49	61	-0.30	1.39	3.09	2.24	
	Population	307	306	320	339	374	-0.05	0.92	1.11	0.99	
Mangistau	GDP(Tenge)	23011	23872	29041	36392	55355	0.74	4.00	4.62	4.28	
	GDP/capita	68	68	78	91	122	0.21	2.74	3.12	2.93	
	Population	340	349	371	399	454	0.53	1.22	1.45	1.31	
Taldykorg	GDP(Tenge)	25942	25968	29456	35287	47842	0.02	2.56	3.67	3.09	
	GDP/capita	36	36	40	45	55	0.00	1.70	2.54	2.12	
	Population	713	713	744	786	864	0.02	0.85	1.10	0.95	
Total	GDP(Tenge)	933907	1038240	1216923	1501234	2119833	2.14	3.23	4.29	3.51	
	GDP/capita	56	62	69	81	104	1.86	2.32	3.23	2.53	
	Population	16569	16801	17559	18479	20324	0.28	0.89	1.03	0.96	

Source: Scientific Research Institute of Economy and Marketing, Ministry of Economy

*: Simply applied the average annual growth rate during 2000-2010(10 years).

Appendix-3.3.3 (10) Projection of Growth Rates for Population, GDP per capita and GDP (Adjusted by GDP per capita forecasted by World Bank)

Region	Item	Low Case				Medium Case				High Case			
		Annual Growth Rate(%)				Annual Growth Rate(%)				Annual Growth Rate(%)			
		1995-2000	2000-2005	2005-2010	2010-2020	1995-2000	2000-2005	2005-2010	2010-2020	1995-2000	2000-2005	2005-2010	2010-2020
Akmola	GDP(Tenge)	6.28	5.91	5.30	3.71	6.79	6.41	5.81	4.22	7.20	6.82	6.31	4.72
	GDP/capita	5.71	5.07	4.43	2.90	6.22	5.57	4.93	3.40	6.62	5.97	5.44	3.89
	Population	0.54	0.80	0.83	0.79	0.54	0.80	0.83	0.79	0.54	0.80	0.83	0.79
West Kaz.	GDP(Tenge)	5.77	5.42	5.42	4.89	6.27	5.93	5.93	5.40	6.68	6.33	6.44	5.90
	GDP/capita	4.96	4.24	4.14	3.69	5.47	4.74	4.64	4.19	5.87	5.14	5.14	4.69
	Population	0.77	1.13	1.23	1.16	0.77	1.13	1.23	1.16	0.77	1.13	1.23	1.16
Aktjubins.	GDP(Tenge)	5.18	4.71	5.22	4.43	5.68	5.21	5.73	4.94	6.09	5.61	6.24	5.44
	GDP/capita	4.61	3.46	3.81	3.14	5.12	3.96	4.31	3.64	5.52	4.36	4.81	4.13
	Population	0.54	1.20	1.36	1.26	0.54	1.20	1.36	1.26	0.54	1.20	1.36	1.26
Karagand	GDP(Tenge)	4.49	4.83	4.69	4.22	4.99	5.31	5.19	4.72	5.39	5.71	5.70	5.23
	GDP/capita	4.68	4.39	4.20	3.79	5.18	4.89	4.70	4.29	5.59	5.29	5.21	4.79
	Population	-0.18	0.41	0.47	0.42	-0.18	0.41	0.47	0.42	-0.18	0.41	0.47	0.42
Kustanay	GDP(Tenge)	3.28	4.26	4.54	3.87	3.77	4.76	5.04	4.37	4.17	5.16	5.55	4.87
	GDP/capita	3.46	3.90	4.11	3.90	3.95	4.40	4.61	4.00	4.35	4.80	5.11	4.50
	Population	-0.17	0.35	0.42	0.36	-0.17	0.35	0.42	0.36	-0.17	0.35	0.42	0.36
Alyrau	GDP(Tenge)	5.38	6.06	5.35	5.17	5.89	6.57	5.85	5.67	6.29	6.97	6.36	6.18
	GDP/capita	4.28	4.43	3.44	3.43	4.78	4.93	3.94	3.93	5.18	5.33	4.44	4.43
	Population	1.06	1.56	1.84	1.68	1.06	1.56	1.84	1.68	1.06	1.56	1.84	1.68
East Kaz.	GDP(Tenge)	4.25	4.81	4.49	4.12	4.75	5.31	4.99	4.62	5.15	5.71	5.49	5.13
	GDP/capita	4.38	4.38	3.93	3.65	4.88	4.88	4.43	4.15	5.28	5.28	4.93	4.65
	Population	-0.12	0.41	0.56	0.45	-0.12	0.41	0.54	0.45	-0.12	0.41	0.54	0.45
South Kaz.	GDP(Tenge)	3.77	4.57	4.17	3.84	4.27	5.07	4.68	4.35	4.67	5.47	5.18	4.85
	GDP/capita	2.51	2.83	2.32	2.08	3.00	3.32	2.81	2.57	3.40	3.72	3.30	3.07
	Population	1.23	1.69	1.81	1.73	1.23	1.69	1.81	1.73	1.23	1.69	1.81	1.73
Zhanbul	GDP(Tenge)	4.80	5.04	6.51	5.23	5.30	5.54	7.02	5.74	5.70	5.94	7.54	6.25
	GDP/capita	4.56	4.11	5.32	4.20	5.06	4.61	5.83	4.71	5.46	5.00	6.34	5.21
	Population	0.23	0.90	1.13	0.99	0.23	0.90	1.13	0.99	0.23	0.90	1.13	0.99
Akmola	GDP(Tenge)	4.21	5.82	5.62	5.18	4.71	6.33	6.12	5.69	5.11	6.74	6.63	6.20
	GDP/capita	3.92	4.74	4.36	4.05	4.41	5.25	4.88	4.56	4.81	5.65	5.38	5.06
	Population	0.28	1.03	1.19	1.09	0.28	1.03	1.19	1.09	0.28	1.03	1.19	1.09
Semipalat	GDP(Tenge)	4.62	5.67	4.66	4.64	5.12	6.18	5.18	5.15	5.53	6.59	5.68	5.65
	GDP/capita	5.03	5.21	4.08	4.13	5.54	5.71	4.58	4.64	5.94	6.12	5.08	5.14
	Population	-0.39	0.44	0.58	0.49	-0.39	0.44	0.58	0.49	-0.39	0.44	0.58	0.49
Kekchetau	GDP(Tenge)	3.43	3.35	4.38	4.33	3.92	3.85	4.88	4.84	4.32	6.25	5.39	5.34
	GDP/capita	4.02	5.00	3.80	3.89	4.52	5.50	4.30	4.40	4.91	5.91	4.80	4.90
	Population	-0.57	0.33	0.56	0.42	-0.57	0.33	0.56	0.42	-0.57	0.33	0.56	0.42
Pavodar	GDP(Tenge)	4.00	4.76	4.27	3.99	4.50	5.27	4.77	4.49	4.90	5.67	5.27	4.99
	GDP/capita	4.05	4.07	3.50	3.28	4.54	4.57	3.99	3.78	4.94	4.96	4.49	4.28
	Population	-0.04	0.67	0.75	0.69	-0.04	0.67	0.75	0.69	-0.04	0.67	0.75	0.69
North Kaz.	GDP(Tenge)	5.67	5.12	4.76	4.41	4.17	5.63	5.27	4.91	4.56	6.03	5.77	5.42
	GDP/capita	4.62	5.14	4.56	4.34	5.13	5.64	5.07	4.85	5.53	6.04	5.57	5.35
	Population	-0.91	-0.01	0.19	0.07	-0.91	-0.01	0.19	0.07	-0.91	-0.01	0.19	0.07
Kyzyl Orda	GDP(Tenge)	6.63	7.51	4.45	5.43	7.14	8.02	4.96	5.94	7.55	8.43	5.46	6.45
	GDP/capita	5.82	5.87	2.78	3.81	6.33	6.38	3.28	4.31	6.73	6.78	3.77	4.81
	Population	0.77	1.55	1.62	1.56	0.77	1.55	1.62	1.56	0.77	1.55	1.62	1.56
Zhezkazgan	GDP(Tenge)	5.41	5.82	4.76	4.75	5.92	6.33	5.26	5.26	6.32	6.74	5.77	5.77
	GDP/capita	5.09	4.85	3.71	3.77	5.60	5.36	4.21	4.28	6.00	5.76	4.71	4.78
	Population	0.31	0.93	1.01	0.95	0.31	0.93	1.01	0.95	0.31	0.93	1.01	0.95
Tural	GDP(Tenge)	2.03	4.30	4.81	4.02	2.52	4.80	5.32	4.53	2.91	5.20	5.82	5.03
	GDP/capita	2.09	3.35	3.66	3.00	2.58	3.85	4.16	3.50	2.97	4.24	4.66	4.00
	Population	-0.05	0.92	1.11	0.99	-0.05	0.92	1.11	0.99	-0.05	0.92	1.11	0.99
Mangistau	GDP(Tenge)	3.15	6.01	5.19	5.07	3.65	6.52	5.70	5.58	4.64	6.93	6.21	6.08
	GDP/capita	2.61	4.73	3.69	3.70	3.10	5.23	4.19	4.20	3.49	5.63	4.69	4.71
	Population	0.53	1.22	1.45	1.31	0.53	1.22	1.45	1.31	0.53	1.22	1.45	1.31
Taldykorg.	GDP(Tenge)	2.42	4.55	4.24	3.87	2.91	5.05	4.75	4.37	3.30	5.45	5.25	4.87
	GDP/capita	2.40	3.67	3.11	2.89	2.89	4.17	3.61	3.39	3.28	4.56	4.10	3.88
	Population	0.02	0.85	1.10	0.95	0.02	0.85	1.10	0.95	0.02	0.85	1.10	0.95
Total	GDP(Tenge)	4.59	5.23	4.87	4.29	5.09	5.73	5.37	4.79	5.49	6.13	5.85	5.30
	GDP/capita	4.30	4.30	3.80	3.30	4.80	4.80	4.30	3.80	5.20	5.20	4.80	4.30
	Population	0.28	0.89	1.03	0.96	0.28	0.89	1.03	0.96	0.28	0.89	1.03	0.96

Note: The sum of each regional GDP growth in value is not equal to that of the total since the each growth rate of GDP is obtained solely using growth rates/index of each region and total. However there is no problem as far as each growth rate is applied for the forecast.

**Appendix-3.3.3 (11) Projection of Population, GDP per capita and GDP by Zone
In Kazakhstan (Capital Relocation)**

Unit: Million for GDP, Thousands for Population and GDP per capita

		Forecast by Scientific Research Institute of Economy and Marketing									
Region	Item	1995	2000	2005	2010	2020	Annual average growth rate(%)				
							1995-2000	2000-2005	2005-2010	2010-2020	
Almaty	GDP(Tenge)	150680	177336	205179	247428	333579	3.31	2.96	3.82	3.03	
	GDP/capita	71	83	97	117	144	3.24	3.07	3.86	2.13	
	Population	2123	2131	2120	2116	2310	0.07	-0.11	-0.04	0.88	
West Kaz.	GDP(Tenge)	28968	34055	40294	51038	76319	3.29	3.42	4.84	4.11	
	GDP/capita	43	49	55	65	87	2.50	2.26	3.57	2.91	
	Population	669	695	735	782	877	0.77	1.13	1.23	1.16	
Akt'yubins.	GDP(Tenge)	44422	50787	58074	72875	104334	2.71	2.72	4.65	3.65	
	GDP/capita	59	66	71	83	105	2.16	1.50	3.24	2.37	
	Population	749	770	817	874	990	0.54	1.20	1.36	1.26	
Karagand	GDP(Tenge)	93847	103033	119323	145977	204762	2.04	2.82	4.11	3.44	
	GDP/capita	75	83	94	112	151	2.23	2.40	3.63	3.01	
	Population	1258	1247	1272	1302	1357	-0.18	0.41	0.47	0.42	
Kustanay	GDP(Tenge)	83605	87264	97672	118628	160300	0.86	2.28	3.96	3.09	
	GDP/capita	80	84	92	110	144	1.03	1.93	3.53	2.73	
	Population	1049	1040	1058	1080	1120	-0.17	0.35	0.42	0.36	
At'yrau	GDP(Tenge)	39991	46165	56285	71046	109090	2.91	4.04	4.77	4.38	
	GDP/capita	88	97	109	126	163	1.83	2.44	2.87	2.66	
	Population	453	477	516	565	668	1.06	1.56	1.84	1.68	
East Kaz.	GDP(Tenge)	78050	85386	98121	118876	165128	1.81	2.82	3.91	3.34	
	GDP/capita	84	92	104	122	162	1.93	2.40	3.35	2.88	
	Population	933	927	946	972	1017	-0.12	0.41	0.54	0.45	
South Kaz.	GDP(Tenge)	35303	37737	42873	51171	69232	1.34	2.59	3.60	3.07	
	GDP/capita	18	18	19	20	23	0.11	0.88	1.76	1.32	
	Population	1983	2108	2293	2508	2978	1.23	1.69	1.81	1.73	
Zhanbul	GDP(Tenge)	23297	26160	30391	48524	62635	2.35	3.04	5.92	4.45	
	GDP/capita	23	25	28	35	49	2.11	2.13	4.74	3.43	
	Population	1026	1038	1085	1148	1267	0.23	0.90	1.13	0.99	
Akmola	GDP(Tenge)	41772	49758	69497	99524	144200	3.56	6.91	7.45	3.78	
	GDP/capita	50	55	66	83	110	2.10	3.77	4.53	2.89	
	Population	839	901	1045	1200	1308	1.43	3.02	2.79	0.87	
Semipalat.	GDP(Tenge)	23092	25712	30786	37638	54970	2.17	3.67	4.10	3.86	
	GDP/capita	29	33	38	46	63	2.57	3.21	3.51	3.36	
	Population	802	786	804	827	868	-0.39	0.44	0.58	0.49	
Kokchetau	GDP(Tenge)	34144	35893	42311	51003	72310	1.00	3.34	3.81	3.55	
	GDP/capita	53	57	66	78	105	1.58	3.01	3.23	3.12	
	Population	648	630	640	658	686	-0.57	0.33	0.56	0.42	
Pavlodar	GDP(Tenge)	120621	130377	149582	179254	245900	1.57	2.78	3.70	3.21	
	GDP/capita	129	140	155	179	229	1.61	2.09	2.93	2.51	
	Population	937	935	966	1003	1074	-0.04	0.67	0.75	0.69	
North Kaz.	GDP(Tenge)	18798	19994	23319	28627	40896	1.24	3.12	4.19	3.63	
	GDP/capita	32	35	41	50	71	2.17	3.14	3.99	3.56	
	Population	593	566	566	571	575	-0.91	-0.01	0.19	0.07	
Kzyl Orda	GDP(Tenge)	14956	18316	23899	28907	45519	4.14	5.47	3.88	4.65	
	GDP/capita	22	26	32	36	48	3.34	3.86	2.22	3.03	
	Population	668	694	749	812	948	0.77	1.55	1.62	1.56	
Zhezkazgan	GDP(Tenge)	41193	47629	57431	70482	104065	2.95	3.81	4.18	3.97	
	GDP/capita	86	98	113	131	176	2.63	2.86	3.14	3.00	
	Population	480	488	511	537	590	0.31	0.93	1.01	0.95	
Turpai	GDP(Tenge)	12215	11999	13457	16558	22796	-0.36	2.32	4.23	3.25	
	GDP/capita	40	39	42	49	61	-0.30	1.39	3.09	2.24	
	Population	307	306	320	339	374	-0.05	0.92	1.11	0.99	
Mangistau	GDP(Tenge)	23811	23872	29041	36392	55355	0.74	4.00	4.62	4.28	
	GDP/capita	68	68	78	91	122	0.21	2.74	3.12	2.93	
	Population	340	349	371	399	454	0.53	1.22	1.45	1.31	
Taldykorg.	GDP(Tenge)	25942	25968	29466	35287	47842	0.02	2.56	3.67	3.09	
	GDP/capita	36	36	40	45	55	0.00	1.70	2.54	2.12	
	Population	713	713	744	786	864	0.02	0.85	1.10	0.95	
Total	GDP(Tenge)	933907	1038240	1216923	1501234	2119833	2.14	3.23	4.29	3.51	
	GDP/capita	56	62	69	81	104	1.86	2.32	3.23	2.53	
	Population	16569	16801	17559	18479	20324	0.28	0.89	1.03	0.96	

Appendix-3.3.3 (12) Projection of Population, GDP per capita and GDP (Capital Relocation, Adjusted by GDP per capita forecasted by World Bank)

Region	Item	Low Case				Medium Case				High Case			
		Annual Growth Rate (%)				Annual Growth Rate (%)				Annual Growth Rate (%)			
		1995-2000	2000-2005	2005-2010	2010-2020	1995-2000	2000-2005	2005-2010	2010-2020	1995-2000	2000-2005	2005-2010	2010-2020
Almaty	GDP(Tenge)	5.79	4.95	4.39	3.81	6.30	5.46	4.89	4.31	6.70	5.86	5.40	4.81
	GDP/capita	5.71	5.07	4.43	2.90	6.22	5.57	4.93	3.40	6.62	5.97	5.44	3.89
	Population	0.07	-0.11	-0.04	0.88	0.07	-0.11	-0.04	0.88	0.07	-0.11	-0.04	0.88
West Kaz.	GDP(Tenge)	5.77	5.42	5.42	4.89	6.27	5.93	5.40	5.40	6.68	6.33	6.44	5.90
	GDP/capita	4.96	4.24	4.14	3.69	5.47	4.74	4.64	4.19	5.87	5.14	5.14	4.69
	Population	0.77	1.13	1.23	1.16	0.77	1.13	1.23	1.16	0.77	1.13	1.23	1.16
Aktjubins.	GDP(Tenge)	5.18	4.71	5.22	4.43	5.68	5.21	5.73	4.94	6.09	5.61	6.24	5.44
	GDP/capita	4.61	3.46	3.81	3.14	5.12	3.96	4.31	3.64	5.52	4.36	4.81	4.13
	Population	0.54	1.20	1.36	1.26	0.54	1.20	1.36	1.26	0.54	1.20	1.36	1.26
Karagand	GDP(Tenge)	4.49	4.81	4.69	4.22	4.99	5.31	5.19	4.72	5.39	5.71	5.70	5.23
	GDP/capita	4.68	4.39	4.20	3.79	5.18	4.89	4.70	4.29	5.59	5.29	5.21	4.79
	Population	-0.18	0.41	0.47	0.42	-0.18	0.41	0.47	0.42	-0.18	0.41	0.47	0.42
Kustanby	GDP(Tenge)	3.28	4.26	4.54	3.87	3.77	4.76	5.04	4.37	4.17	6.16	5.55	4.87
	GDP/capita	3.46	3.90	4.11	3.50	3.95	4.40	4.61	4.08	4.35	4.80	5.11	4.50
	Population	-0.17	0.35	0.42	0.36	-0.17	0.35	0.42	0.36	-0.17	0.35	0.42	0.36
Atyrau	GDP(Tenge)	5.38	6.06	5.35	5.17	5.89	6.57	5.85	5.67	6.29	6.97	6.36	6.18
	GDP/capita	4.28	4.43	3.44	3.43	4.78	4.93	3.94	3.93	5.18	5.33	4.44	4.43
	Population	1.06	1.56	1.84	1.68	1.06	1.56	1.84	1.68	1.06	1.56	1.84	1.68
East Kaz.	GDP(Tenge)	4.25	4.81	4.49	4.12	4.75	5.31	4.99	4.62	5.15	5.71	5.49	5.13
	GDP/capita	4.38	4.38	3.93	3.65	4.88	4.88	4.43	4.15	5.28	5.28	4.93	4.65
	Population	-0.12	0.41	0.54	0.45	-0.12	0.41	0.54	0.45	-0.12	0.41	0.54	0.45
South Kaz.	GDP(Tenge)	3.77	4.57	4.17	3.84	4.27	5.07	4.68	4.35	4.67	5.47	5.18	4.85
	GDP/capita	2.51	2.83	2.32	2.08	3.00	3.32	2.81	2.57	3.40	3.72	3.30	3.07
	Population	1.23	1.69	1.81	1.73	1.23	1.69	1.81	1.73	1.23	1.69	1.81	1.73
Zhanbul	GDP(Tenge)	4.80	5.04	6.51	5.23	5.30	5.54	7.02	5.74	5.70	5.94	7.54	6.25
	GDP/capita	4.56	4.11	5.32	4.20	5.06	4.61	5.83	4.71	5.46	5.00	6.34	5.21
	Population	0.23	0.90	1.13	0.99	0.23	0.90	1.13	0.99	0.23	0.90	1.13	0.99
Akmola	GDP(Tenge)	6.04	8.98	8.04	4.56	6.55	9.50	8.56	5.06	6.96	9.92	9.08	5.57
	GDP/capita	4.54	5.78	5.10	3.66	5.05	6.29	5.61	4.16	5.45	6.69	6.12	4.66
	Population	1.43	3.02	2.79	0.87	1.43	3.02	2.79	0.87	1.43	3.02	2.79	0.87
Semipalat.	GDP(Tenge)	4.62	5.67	4.68	4.64	5.12	6.18	5.18	5.15	5.53	6.59	5.68	5.65
	GDP/capita	5.03	5.21	4.08	4.13	5.54	5.71	4.58	4.64	5.94	6.12	5.08	5.14
	Population	-0.39	0.44	0.58	0.49	-0.39	0.44	0.58	0.49	-0.39	0.44	0.58	0.49
Kokchetau	GDP(Tenge)	3.43	5.35	4.38	4.33	3.92	5.85	4.88	4.84	4.32	6.25	5.39	5.34
	GDP/capita	4.02	5.00	3.80	3.89	4.52	5.50	4.30	4.40	4.91	5.91	4.80	4.90
	Population	-0.57	0.33	0.56	0.42	-0.57	0.33	0.56	0.42	-0.57	0.33	0.56	0.42
Pavlodar	GDP(Tenge)	4.08	4.76	4.27	3.99	4.50	5.27	4.77	4.49	4.90	5.67	5.27	4.99
	GDP/capita	4.05	4.07	3.50	3.28	4.54	4.57	3.99	3.78	4.94	4.96	4.49	4.28
	Population	-0.04	0.67	0.75	0.69	-0.04	0.67	0.75	0.69	-0.04	0.67	0.75	0.69
North Kaz.	GDP(Tenge)	3.67	5.12	4.76	4.41	4.17	5.63	5.27	4.91	4.56	6.03	5.77	5.42
	GDP/capita	4.62	5.14	4.56	4.34	5.13	5.64	5.07	4.85	5.53	6.04	5.57	5.35
	Population	-0.91	-0.01	0.19	0.07	-0.91	-0.01	0.19	0.07	-0.91	-0.01	0.19	0.07
Kzyl Orda	GDP(Tenge)	6.63	7.51	4.45	5.43	7.14	8.02	4.96	5.94	7.55	8.43	5.46	6.45
	GDP/capita	5.82	5.87	2.78	3.81	6.33	6.38	3.28	4.31	6.73	6.78	3.77	4.81
	Population	0.77	1.55	1.62	1.56	0.77	1.55	1.62	1.56	0.77	1.55	1.62	1.56
Zhezkazgan	GDP(Tenge)	5.41	5.82	4.76	4.75	5.92	6.33	5.26	5.26	6.32	6.74	5.77	5.77
	GDP/capita	5.09	4.85	3.71	3.77	5.60	5.36	4.21	4.28	6.00	5.76	4.71	4.78
	Population	0.31	0.93	1.01	0.95	0.31	0.93	1.01	0.95	0.31	0.93	1.01	0.95
Turgai	GDP(Tenge)	2.03	4.30	4.81	4.02	2.52	4.80	5.32	4.53	2.91	5.20	5.82	5.03
	GDP/capita	2.09	3.35	3.66	3.00	2.58	3.85	4.16	3.50	2.97	4.24	4.66	4.00
	Population	-0.05	0.92	1.11	0.99	-0.05	0.92	1.11	0.99	-0.05	0.92	1.11	0.99
Mangistau	GDP(Tenge)	3.15	6.01	5.19	5.07	3.65	6.52	5.70	5.58	4.04	6.93	6.21	6.06
	GDP/capita	2.61	4.73	3.69	3.70	3.10	5.23	4.19	4.20	3.49	5.63	4.69	4.71
	Population	0.53	1.22	1.45	1.31	0.53	1.22	1.45	1.31	0.53	1.22	1.45	1.31
Taldykorg.	GDP(Tenge)	2.42	4.55	4.24	3.87	2.91	5.05	4.75	4.37	3.30	5.45	5.25	4.87
	GDP/capita	2.40	3.67	3.11	2.89	2.89	4.17	3.61	3.39	3.28	4.56	4.10	3.88
	Population	0.02	0.85	1.10	0.95	0.02	0.85	1.10	0.95	0.02	0.85	1.10	0.95
Total	GDP(Tenge)	4.59	5.23	4.87	4.29	5.09	5.73	5.37	4.79	5.49	6.13	5.88	5.30
	GDP/capita	4.30	4.30	3.80	3.30	4.80	4.80	4.30	3.80	5.20	5.20	4.80	4.30
	Population	0.28	0.89	1.03	0.96	0.28	0.89	1.03	0.96	0.28	0.89	1.03	0.96

Note: The sum of each regional GDP growth in value is not equal to that of the total since the each growth rate of GDP is obtained solely using growth rates (index) of each region and total, which needs readjustment based on the converted values re-calculated applying estimated growth rates.