

图 2.12 土地利用图

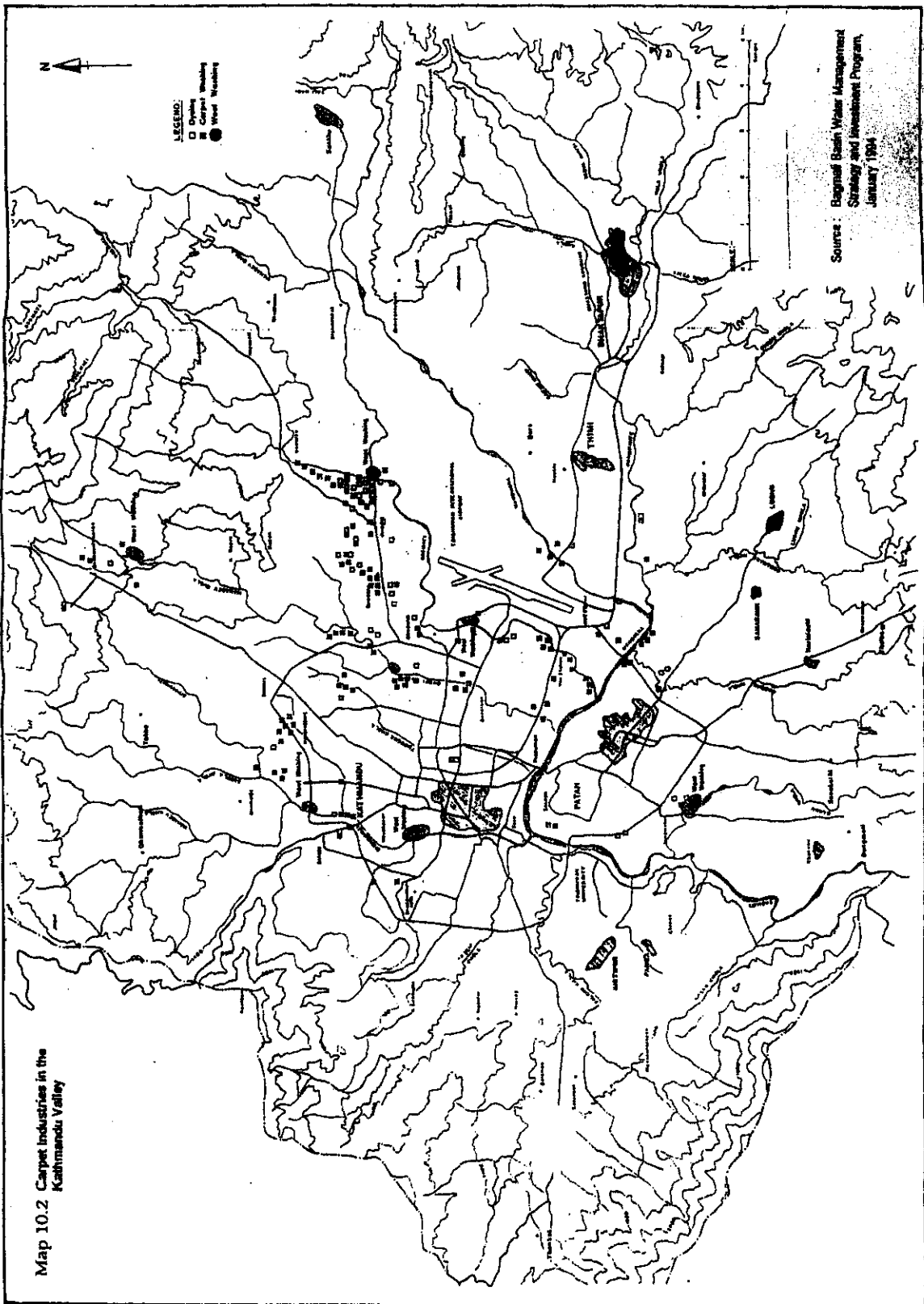
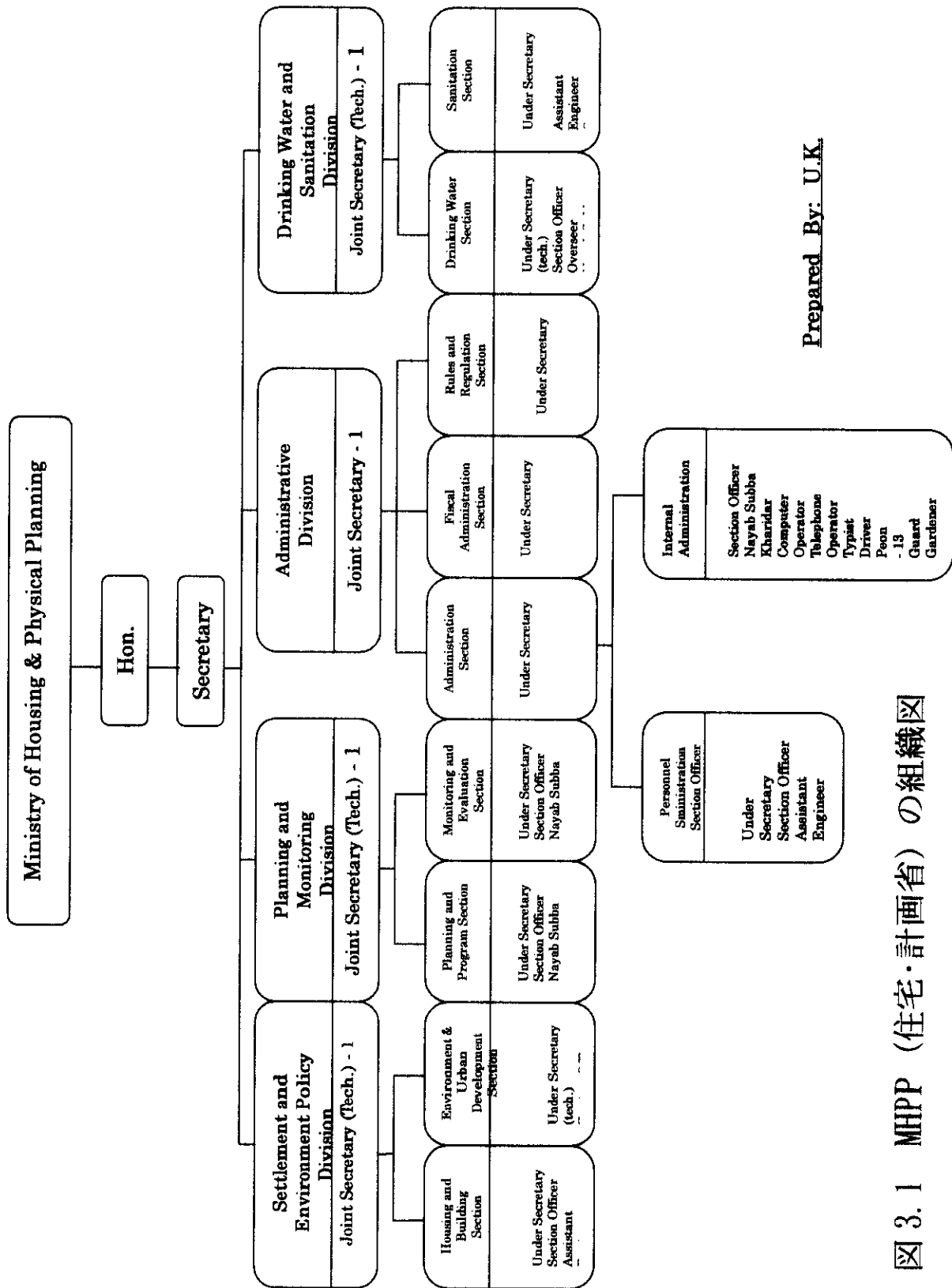


図 2.13 カーペット工場位置図



Prepared By: U.K.

図 3.1 MHPP (住宅・計画省) の組織図

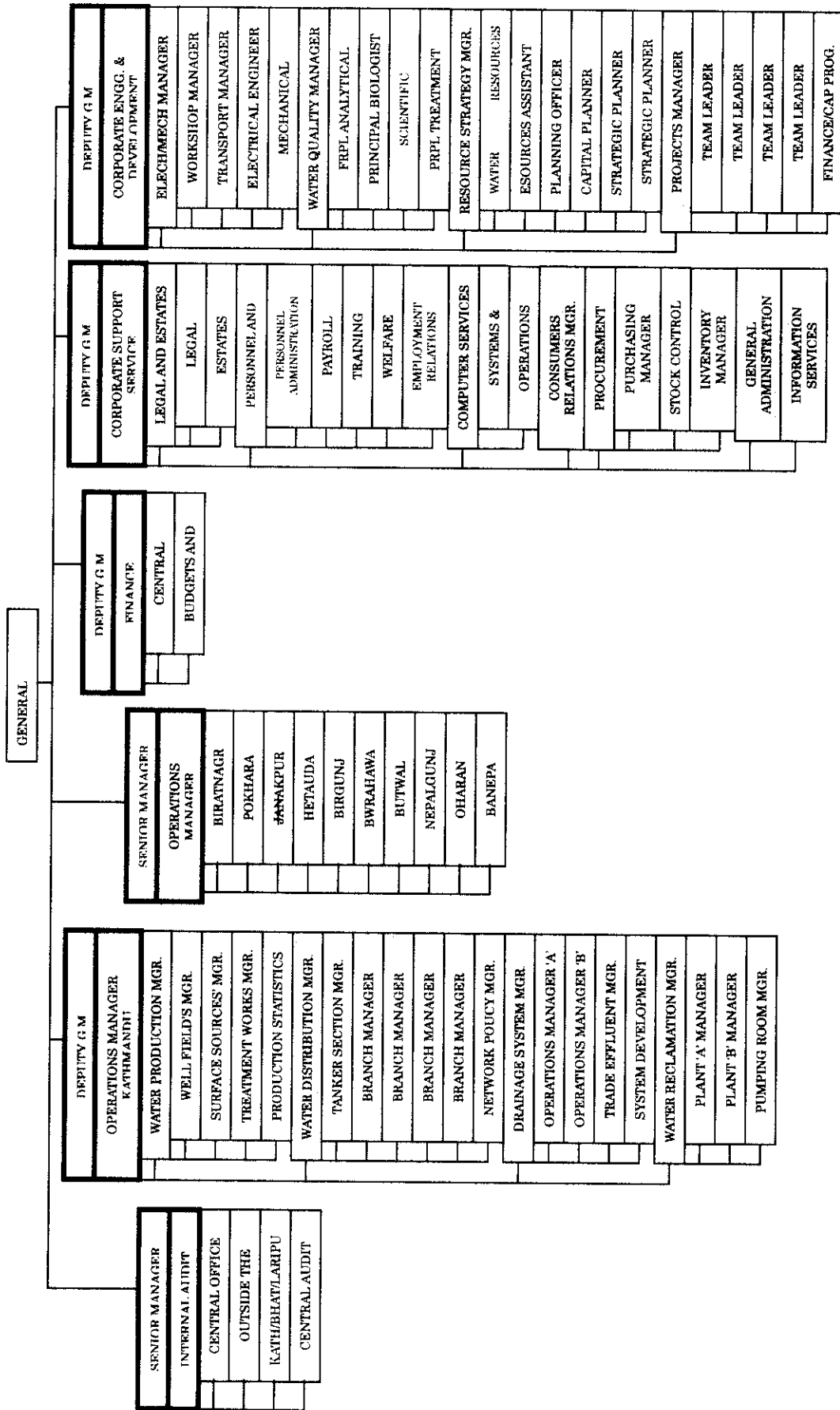


図 3. 2 NEPAL WATER SUPPLY CORPORATION (NWSC) の組織図

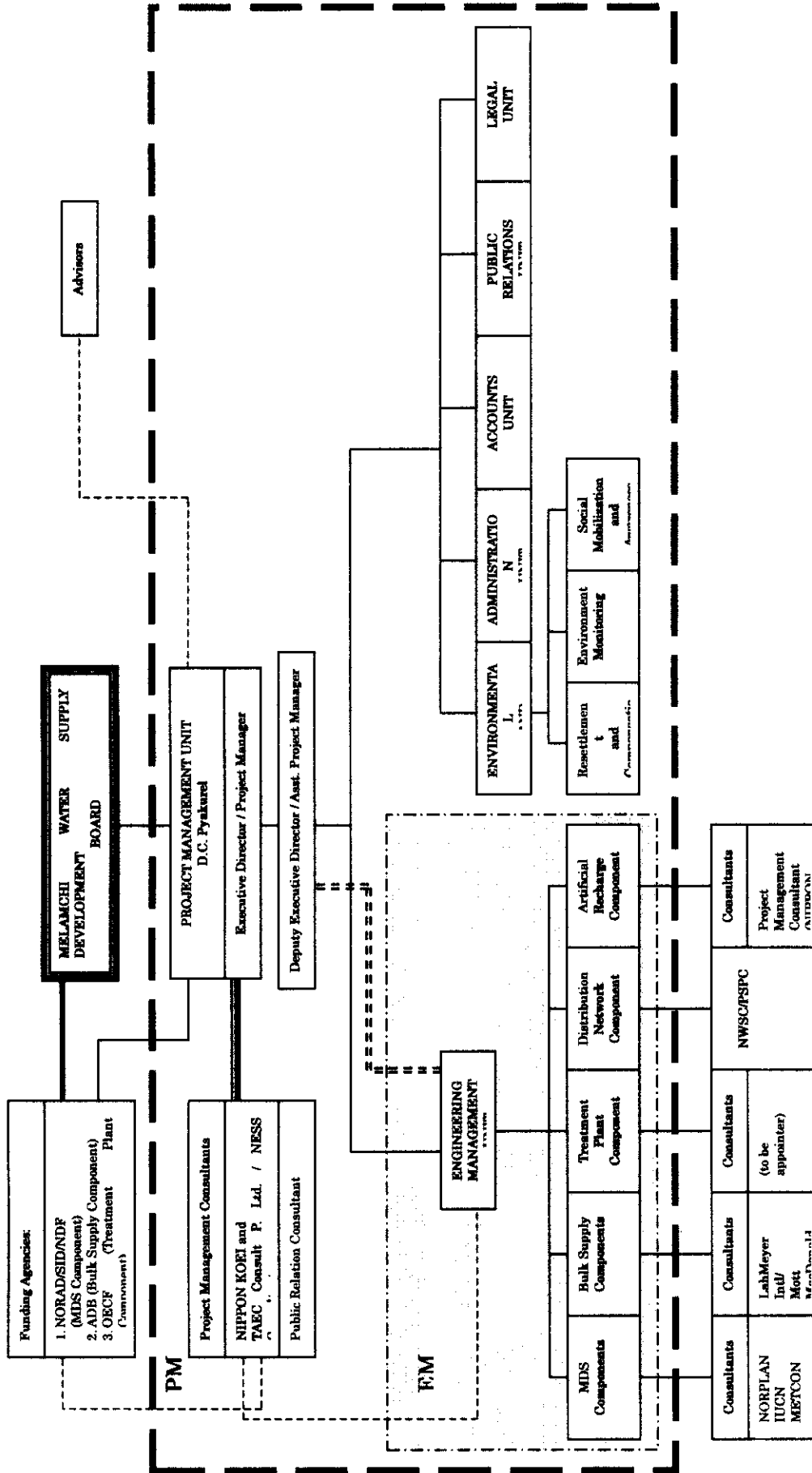


図 3.3 Melamchi Water Supply Project のプロジェクト組織図

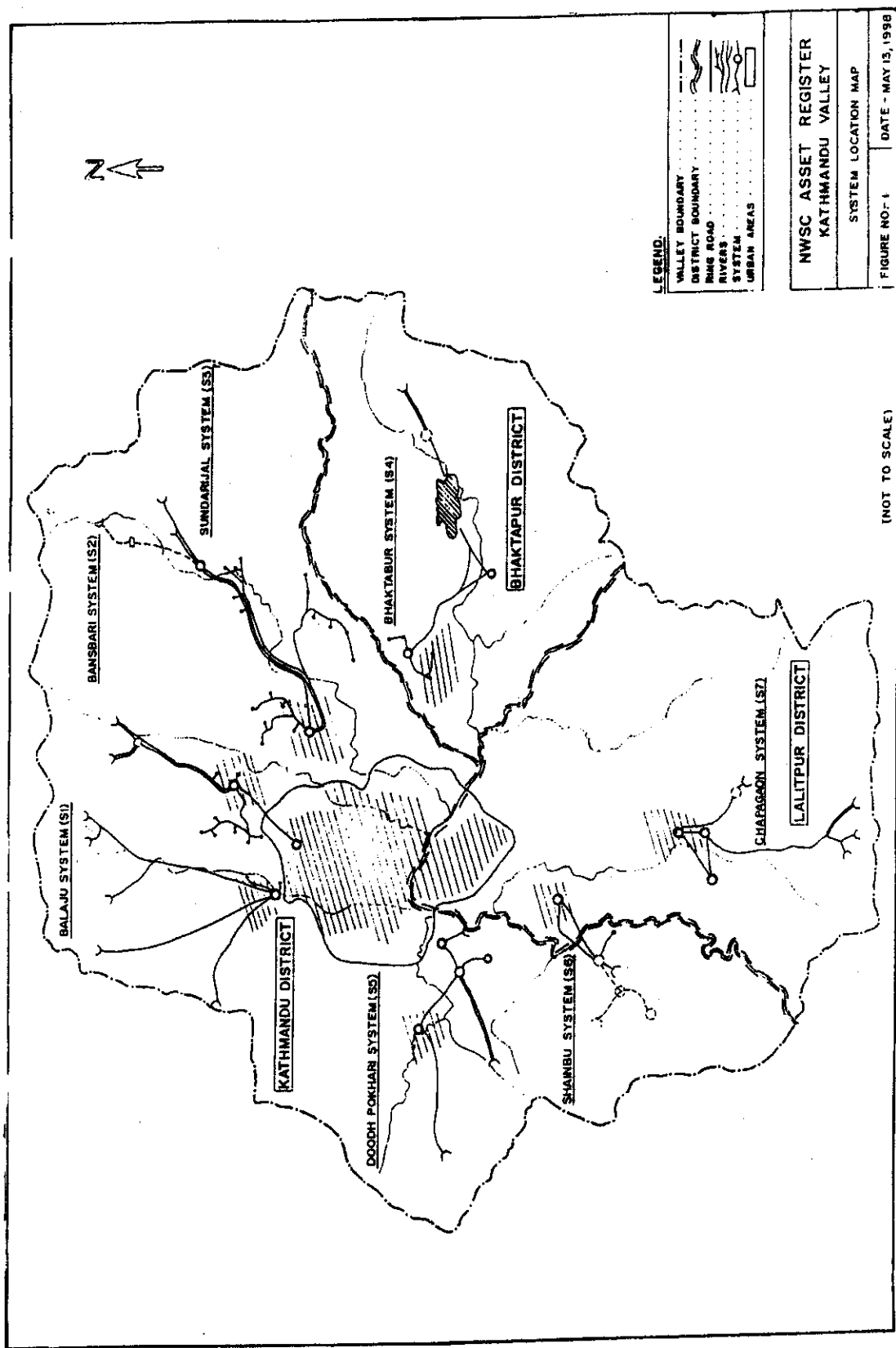
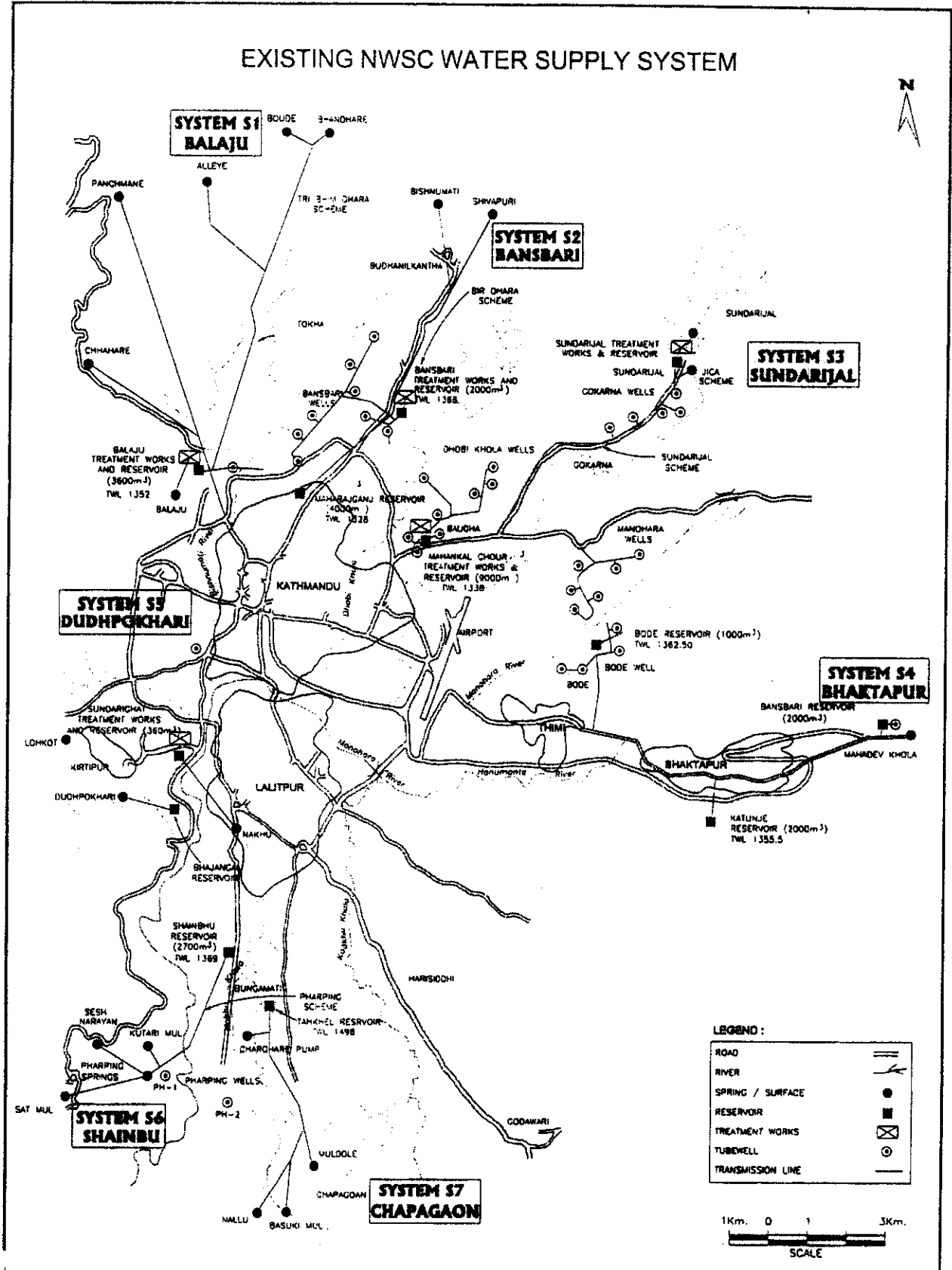


図 3.4 既存水道システム

EXISTING NWSC WATER SUPPLY SYSTEM



HIS MAJESTY'S GOVERNMENT OF NEPAL MELAMCHI WATER SUPPLY DEVELOPMENT BOARD ENGINEERING FOR BULK DISTRIBUTION MELAMCHI WATER SUPPLY PROJECT	Lahmeyer International/Mott MacDonald Ltd In association with Nepalconsult (P) Ltd/MEH Consultants (P) Ltd	FIGURE 2.3
		DATE September, 1989

3.5 Existing NWSC Water Supply System

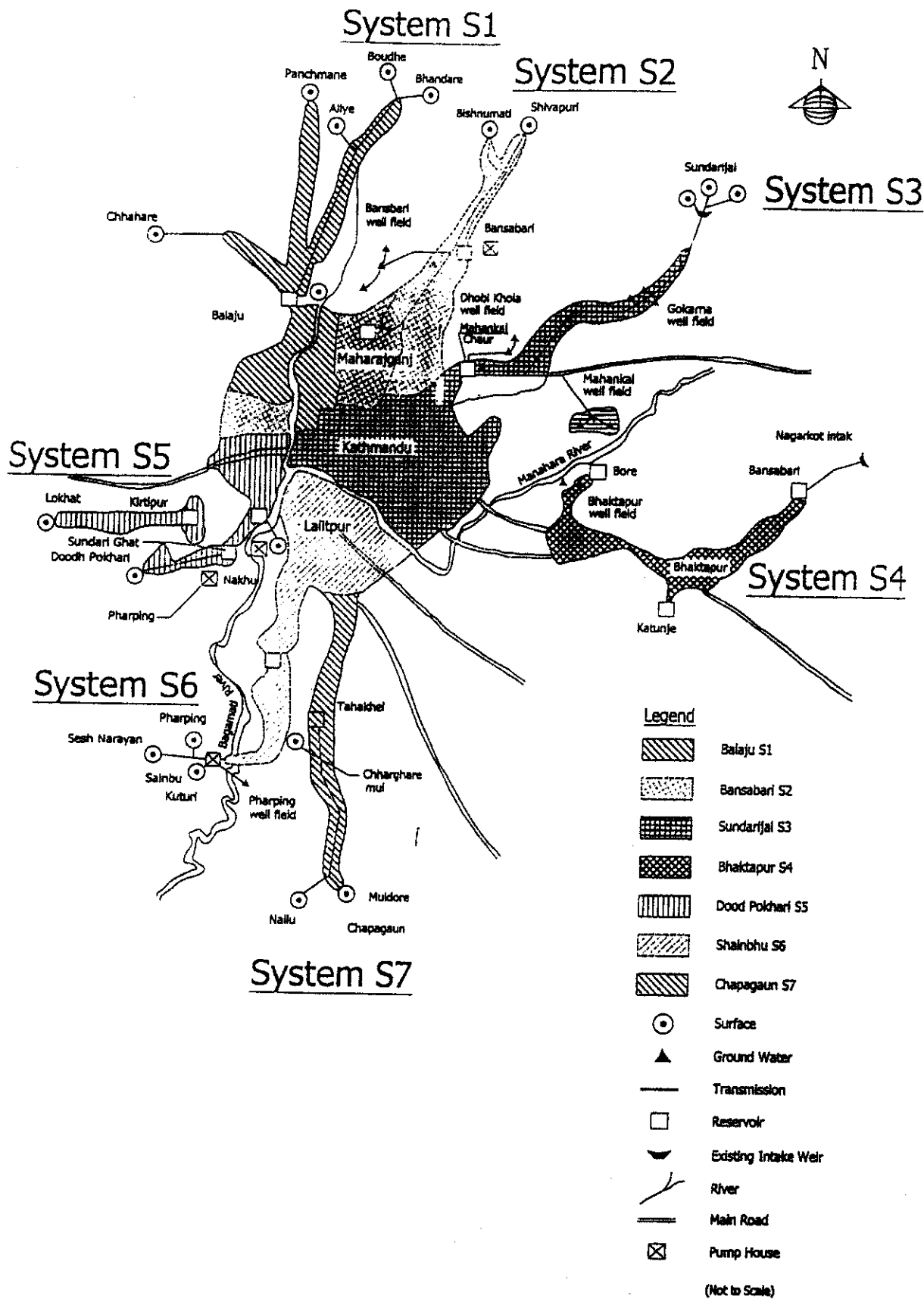


図 3.6 既存給水区域

Figure 2 : Existing Water Systems in Kathmandu Valley

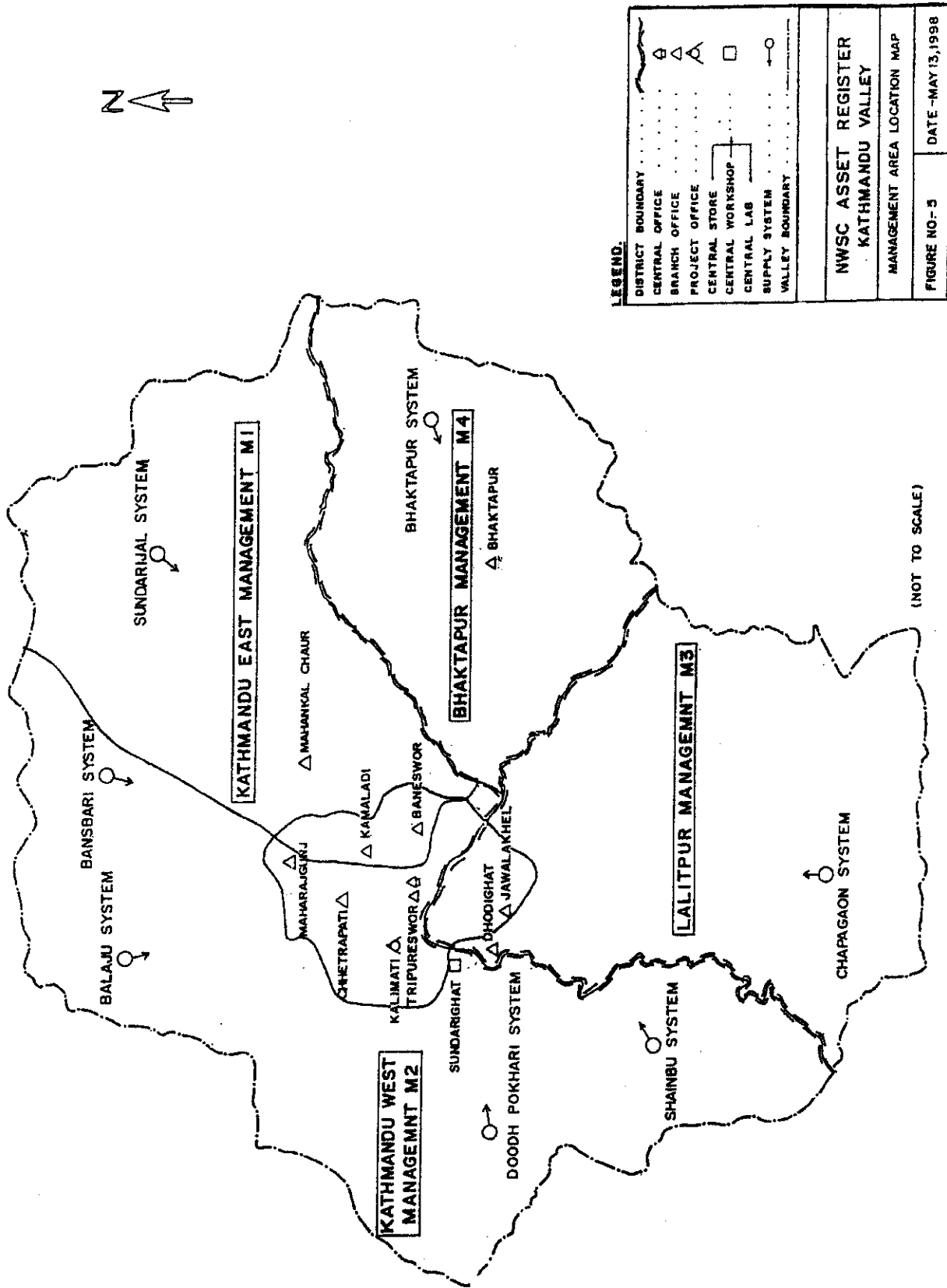


図 3.7 上下水道マネジメント区域図

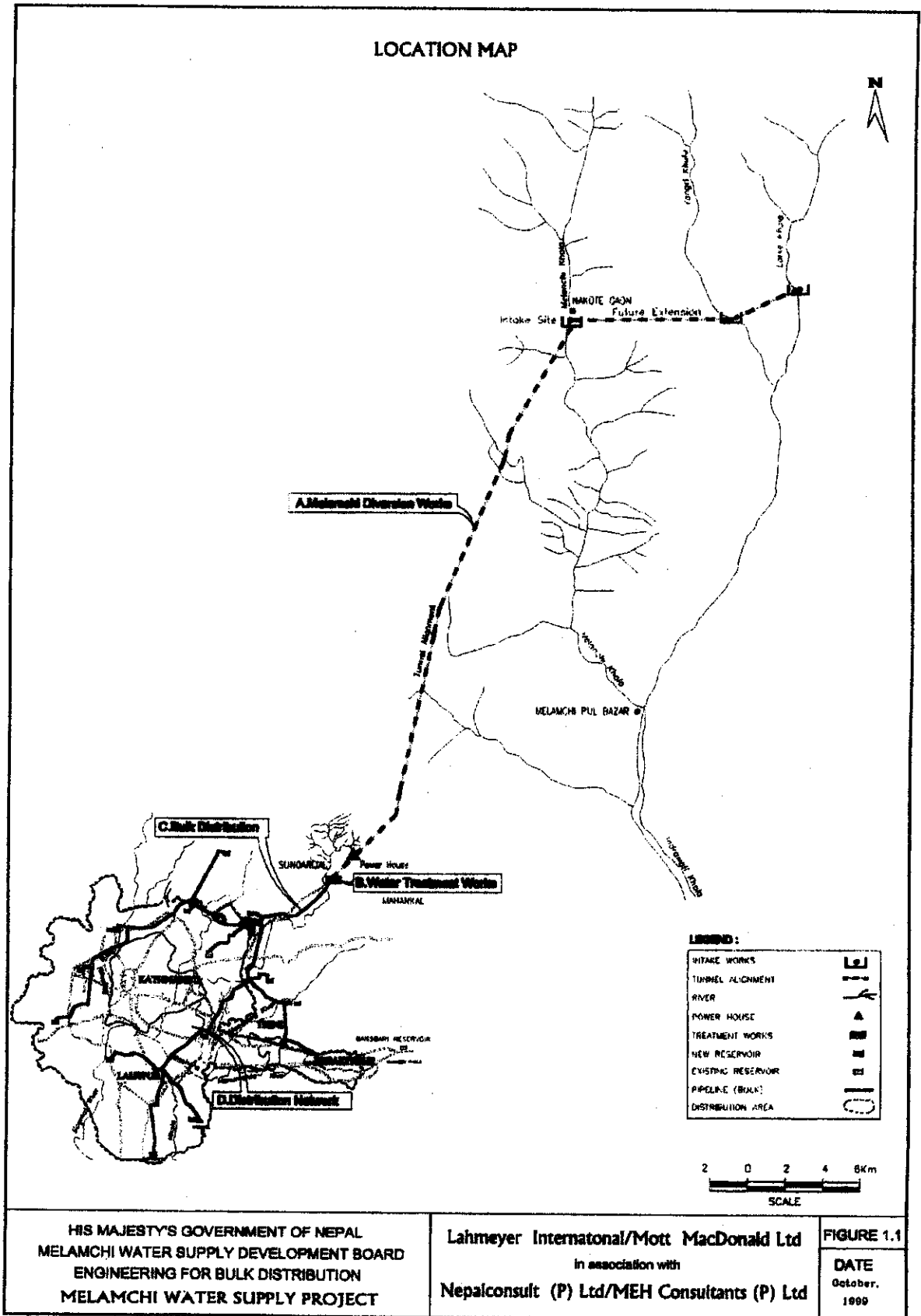


図 4.1 メラムチ水道計画施設図

Annex 2 - MELAMCHI WATER SUPPLY PROJECT OVERALL PROJECT SCHEDULE

(as of Feb 1, 2000)

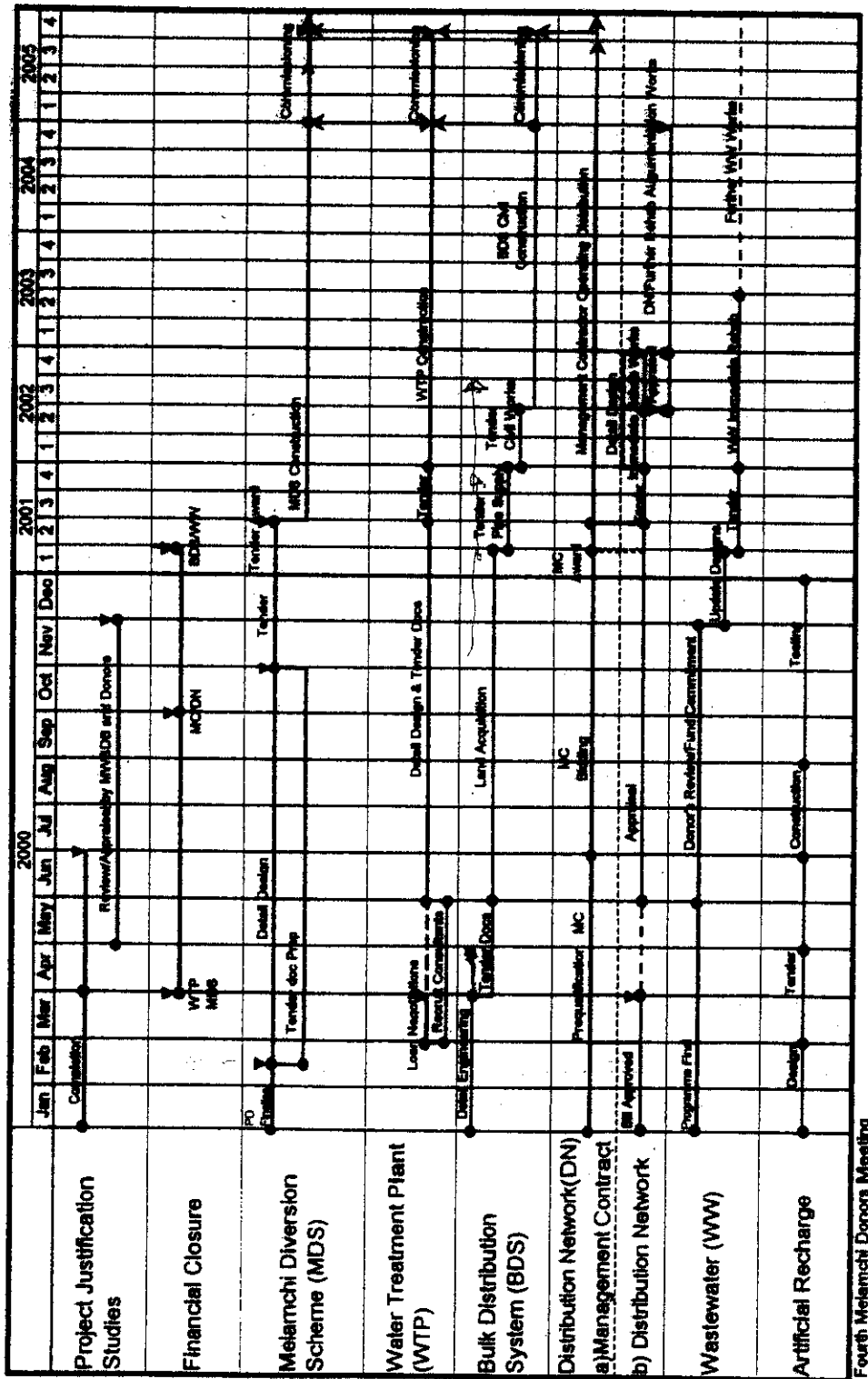


図 4.2 各コンポーネントの実施スケジュール

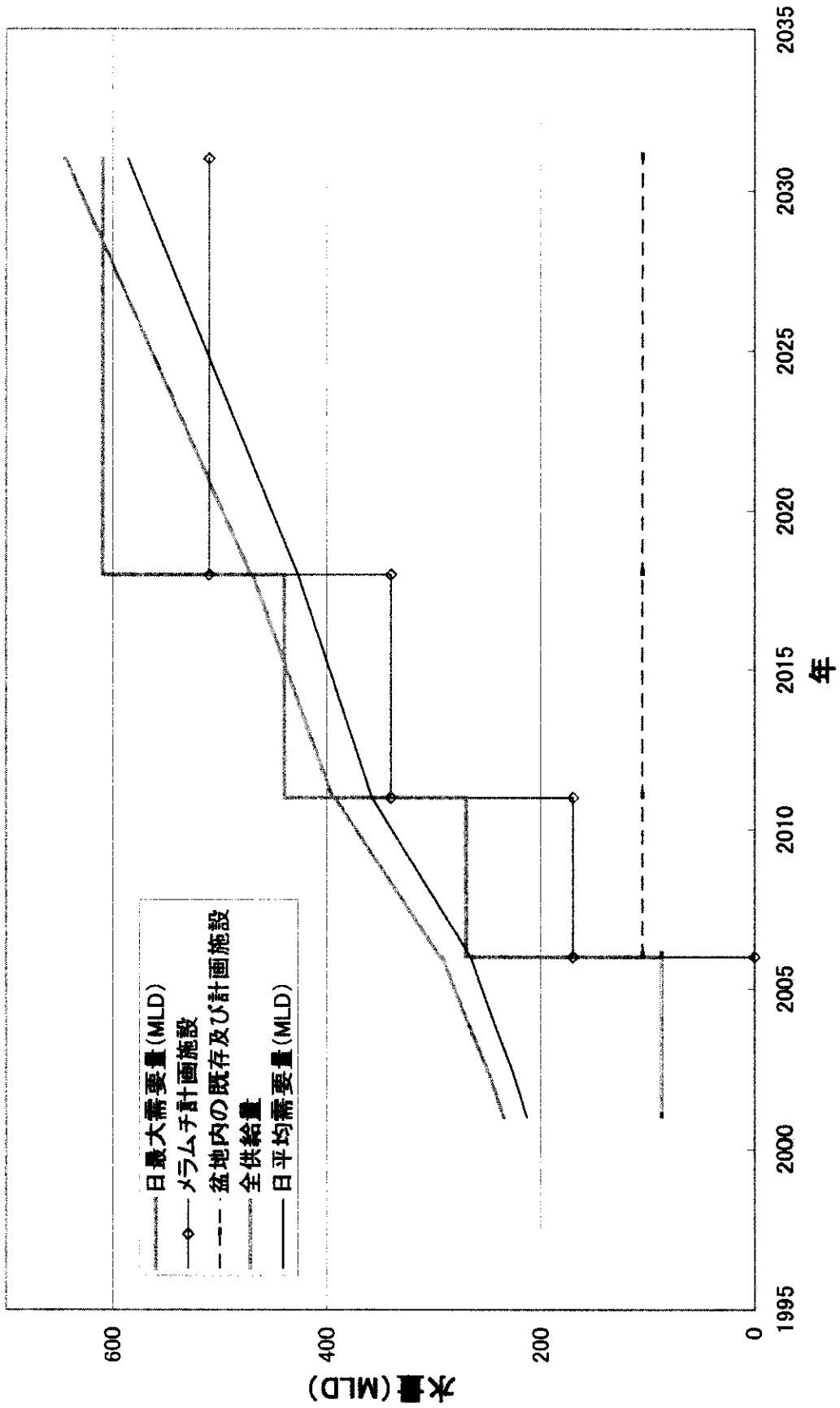
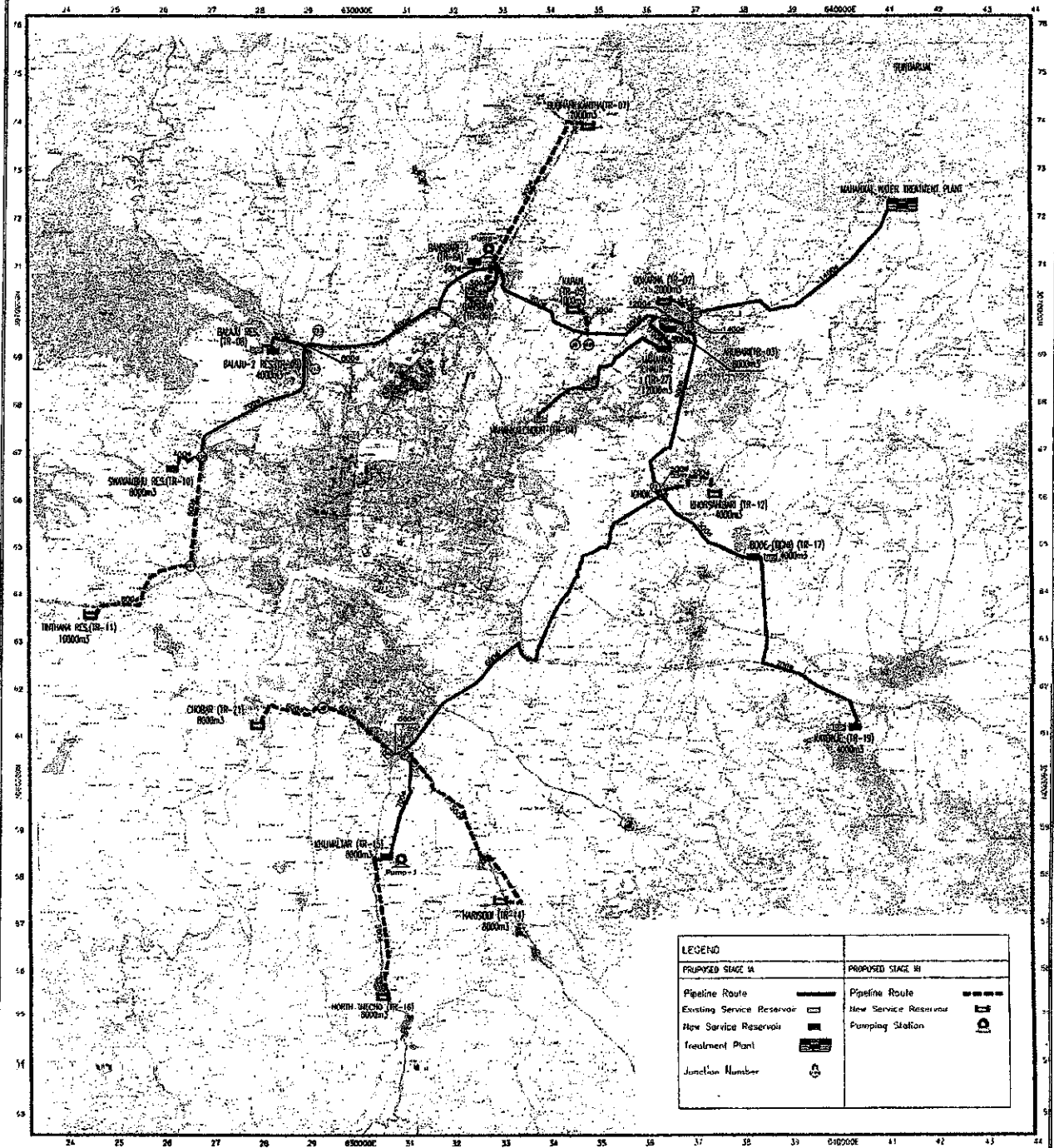


図4.3 メラムチ計画における需要量と供給量の拡張計画(乾期)

RECOMMENDED SCHEME



HIS MAJESTY'S GOVERNMENT OF NEPAL
 MELAMCHI WATER SUPPLY DEVELOPMENT BOARD
 ENGINEERING FOR BULK DISTRIBUTION
 MELAMCHI WATER SUPPLY PROJECT

Lahmeyer International/Mott MacDonald Ltd
 in association with
 Nepalconsult (P) Ltd/MEH Consultants (P) Ltd

0.5 0 0.5 1.0km
 SCALE

FIGURE : 9.1

DATE
 October,
 1989

u5\c:\melamchi\image\fig8.1

図 4.4 メラムチ計画送配水計画

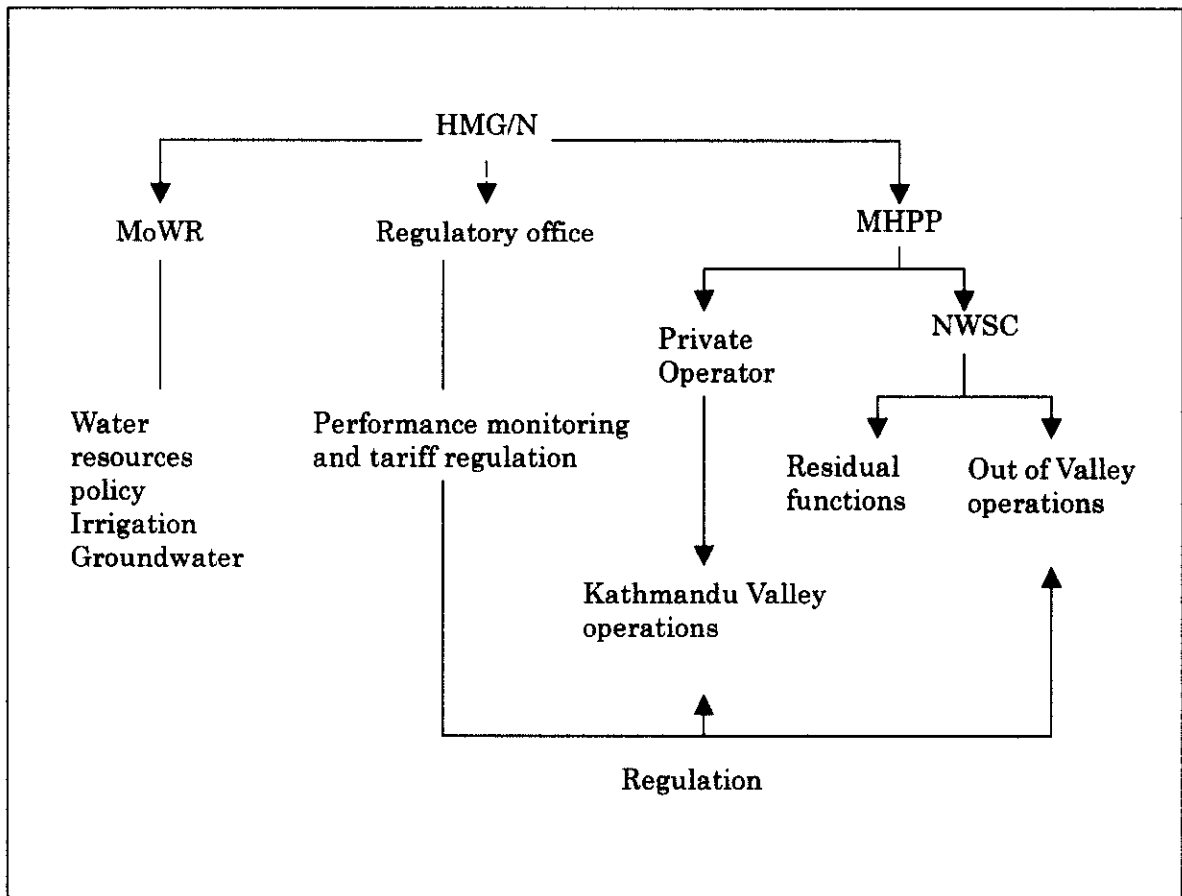


図 5.1 カトマンズ盆地都市上下水道システム

民間運営委託事業を含めた新機構図（案）

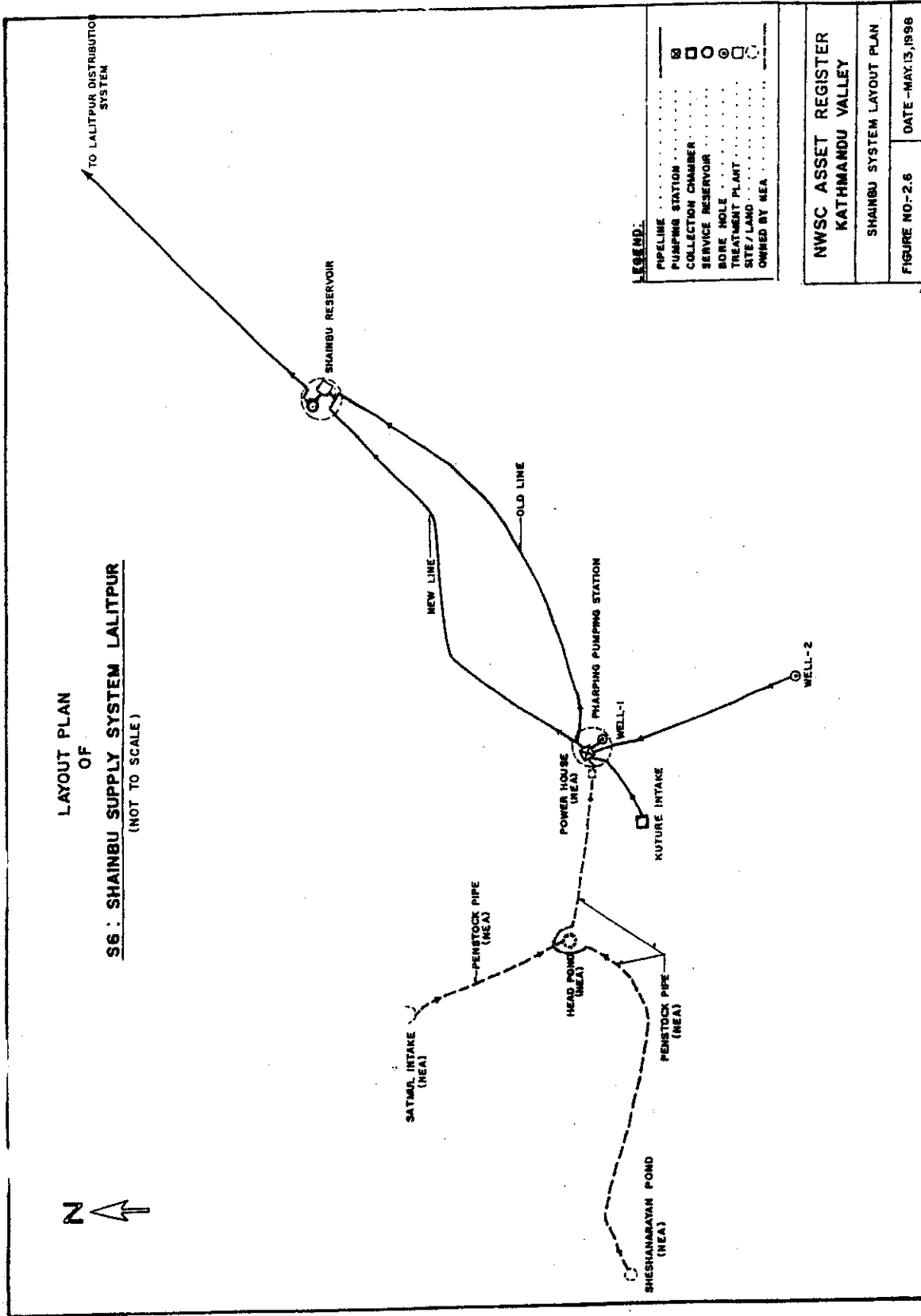


図 6.1 既存シャイブー水道システム

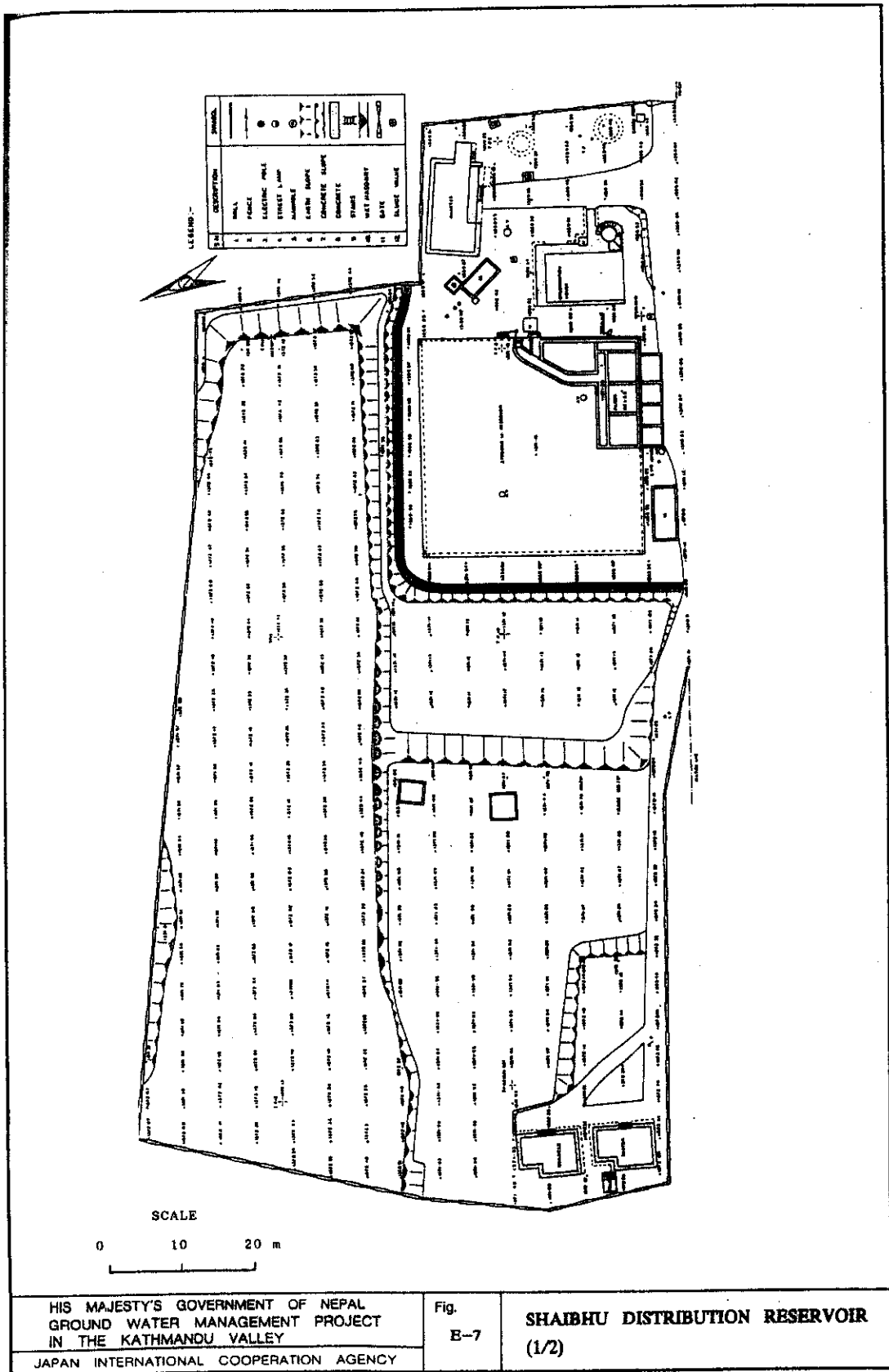
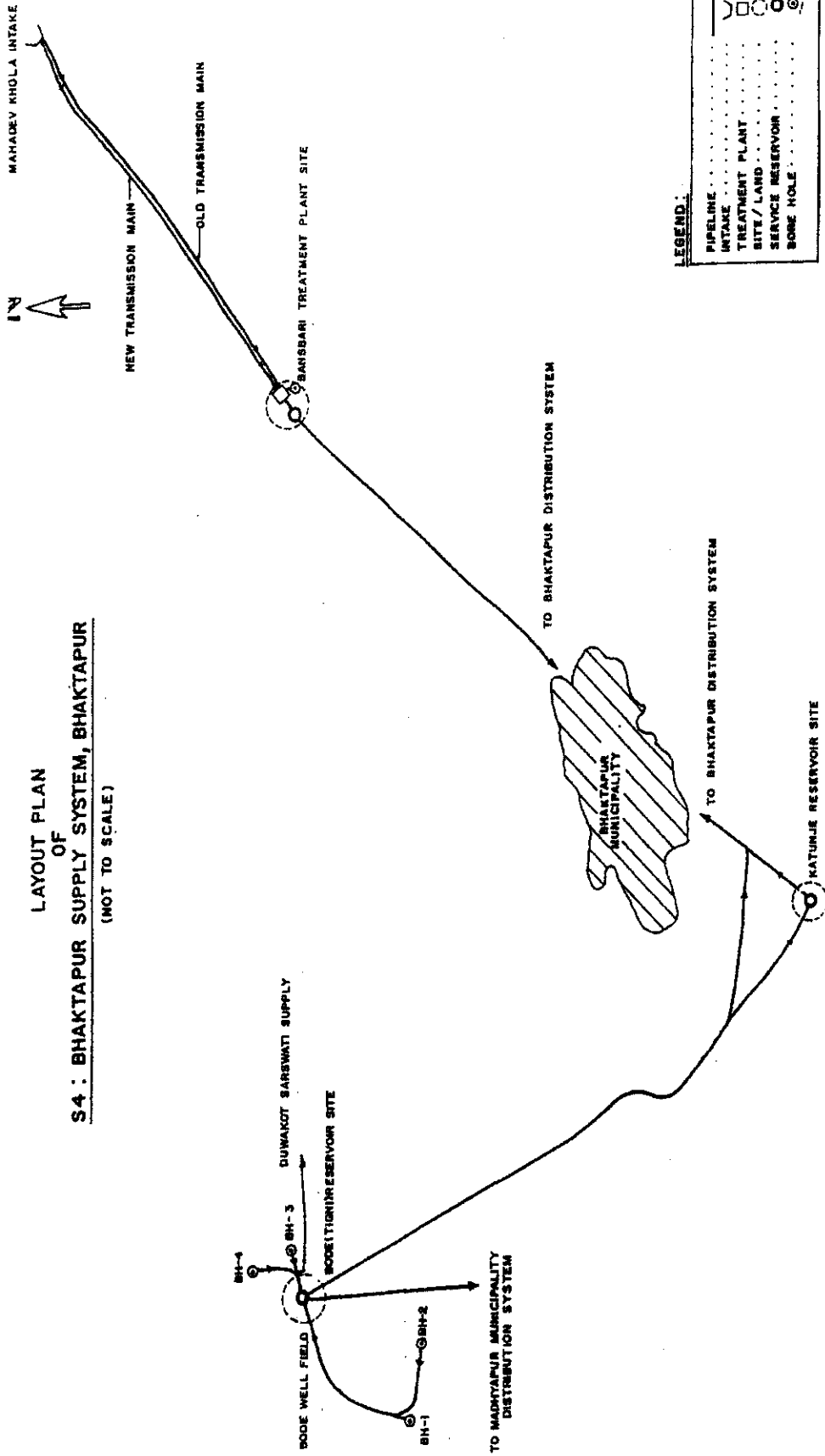


図 6.2 既存及び計画シャイブー配水池予定地

LAYOUT PLAN
OF
S4 : BHAKTAPUR SUPPLY SYSTEM, BHAKTAPUR
(NOT TO SCALE)



LEGEND:

PIPELINE	—
INTAKE	⊃
TREATMENT PLANT	⊙
SITE / LAND	⊠
SERVICE RESERVOIR	⊙
BORNE HOLE	⊙

NWSC ASSET REGISTER KATHMANDU VALLEY	
BHAKTAPUR SYSTEM LAYOUT PLAN	
FIGURE NO-2.4	DATE - MAY 13, 1998

図 6.3 既存バクタプール水道システムマノハラ計画の浄水場及び配水池予定地

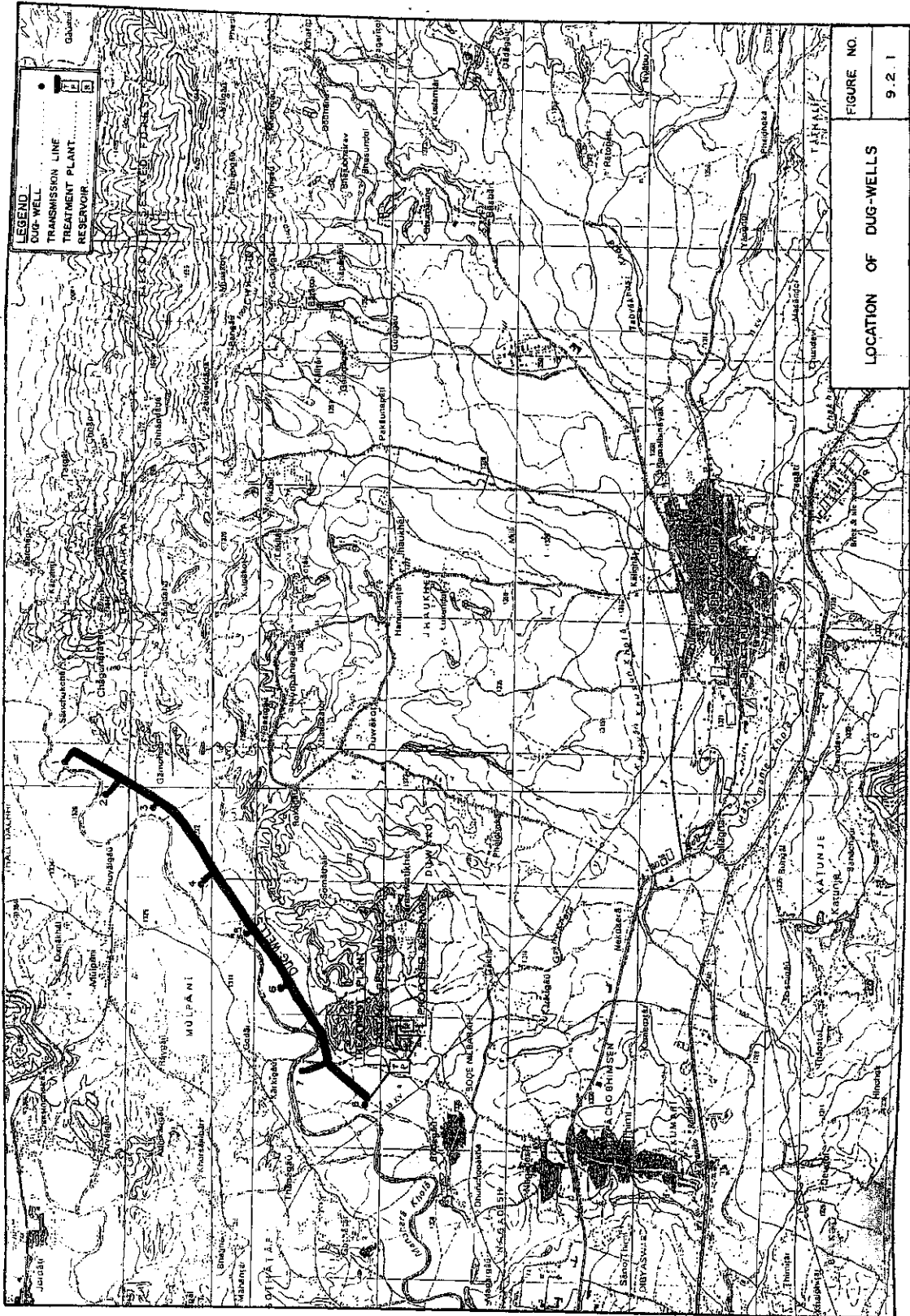
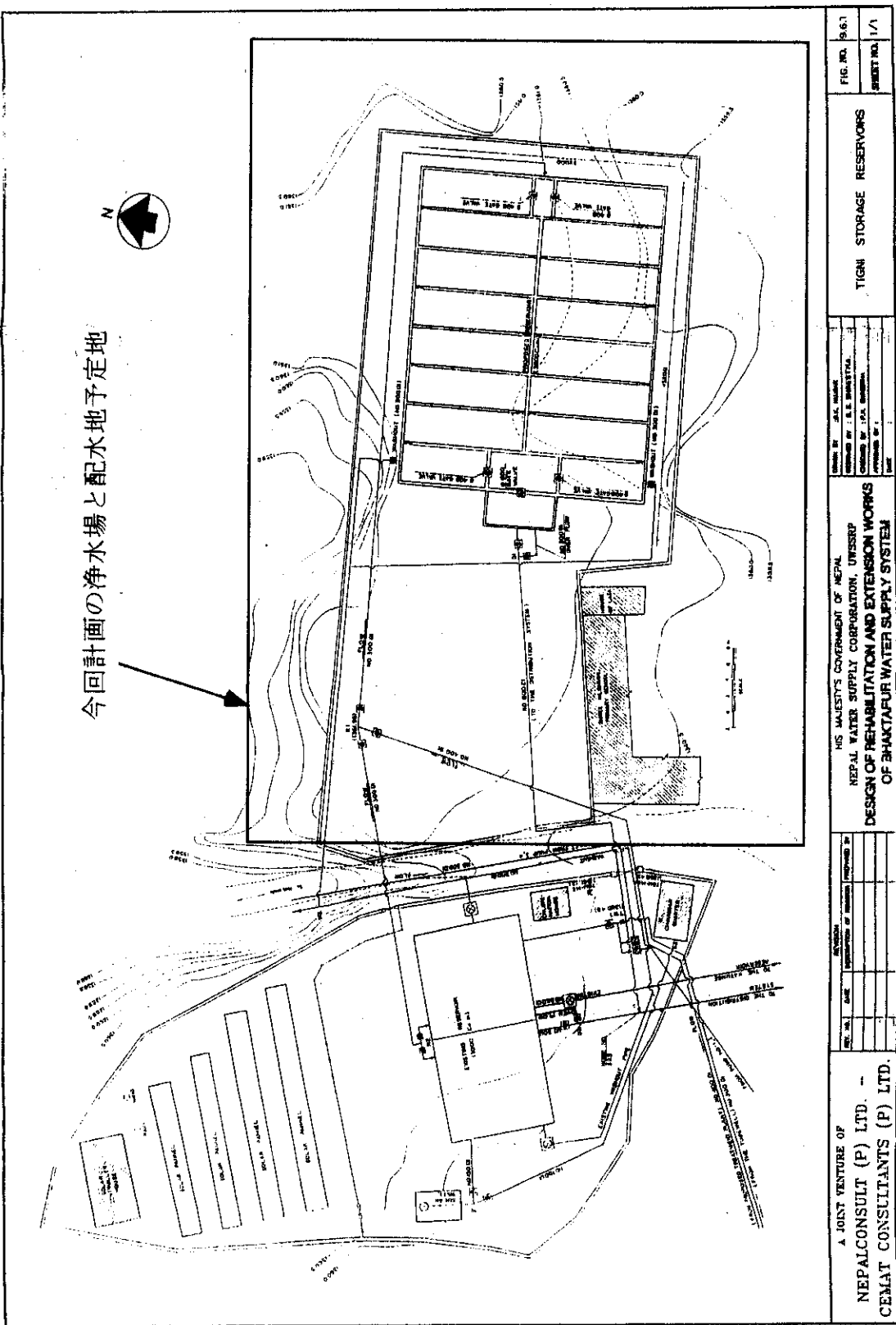


図 6.4 世銀計画のマノハラ川中流域浅井戸取水位置図(1997年)



今回計画の浄水場と配水地予定地

A JOINT VENTURE OF NEPALCONSULT (P) LTD. -- CEMAT CONSULTANTS (P) LTD.		HIS MAJESTY'S GOVERNMENT OF NEPAL NEPAL WATER SUPPLY CORPORATION, UNISERP DESIGN OF REHABILITATION AND EXTENSION WORKS OF BHAKTAPUR WATER SUPPLY SYSTEM		DRAWN BY: S.K. SHARMA CHECKED BY: S.K. SHARMA DESIGNED BY: S.K. SHARMA SCALE: 1/1		FIG. NO. 9.6.7 SHEET NO. 1/1	
				TIGNI STORAGE RESERVOIRS			

図 6.5 世銀計画の配水池計画図(1997年)と今回計画の浄水場と配水地予定地

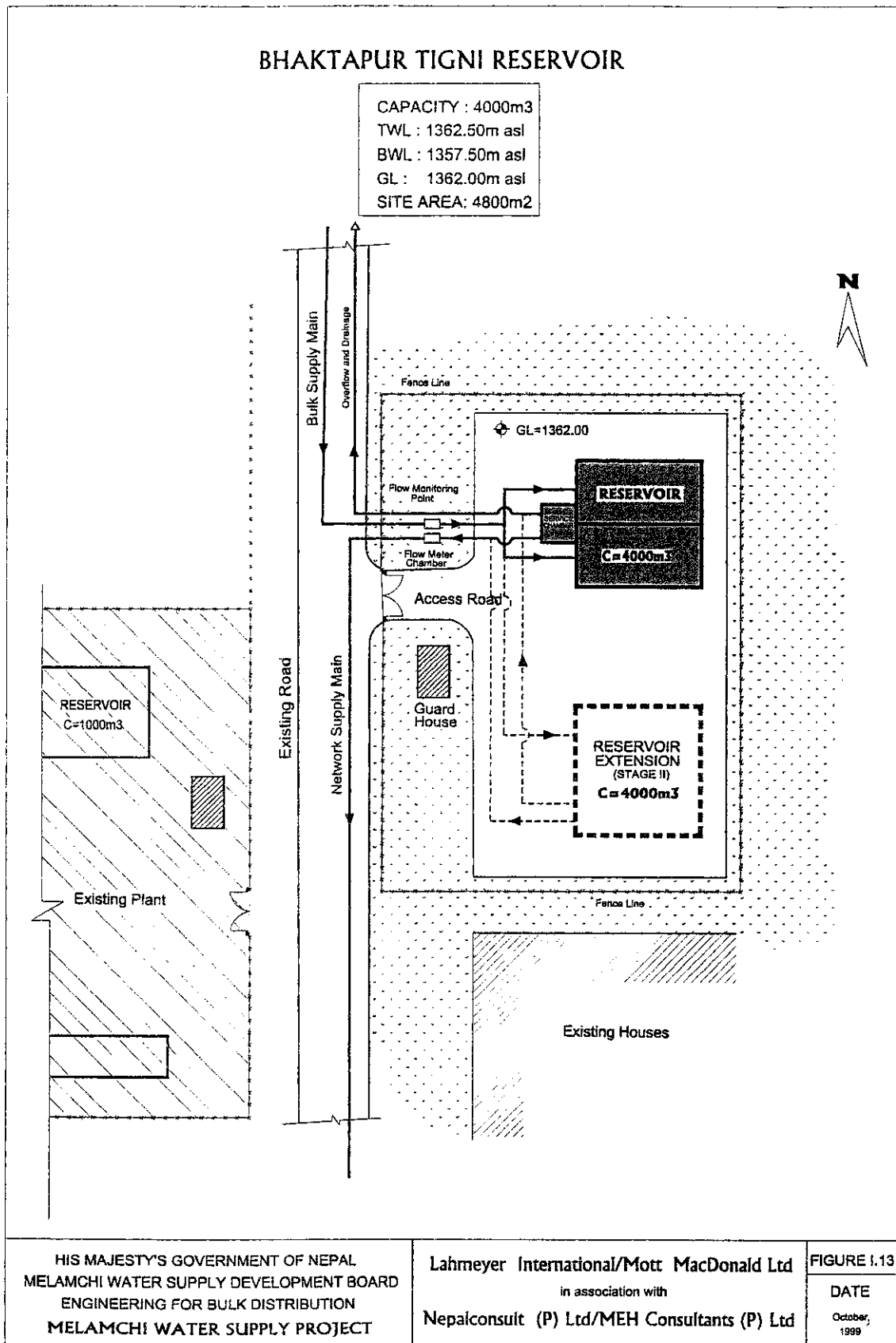


図 6.6 メラムチ計画の配水池計画図 (Bond/Tigni 地区)

付属資料

1. 調査実施工程
2. 主要面談者リスト
3. 収集資料リスト関連資料
4. Minute of Discussion
5. 住宅・計画省次官から団長宛のレター

付属資料1. 現地調査実施工程

日付	訪問機関/現場
8水	日本発
9木	ネパール着、JICA(ネパール事務所)、日本大使館
10金	NWSC、MWSDB、MHPP
11土	休日
12日	資料整理
13月	現場調査(シャイブー配水池、水源地、配水池建設予定地、バルク計画施設建設予定地及びその上流調査)、NWSC中央水質分析研究所
14火	現場調査(マノハラ計画建設予定地、取水点、既存配水池および井戸)
15水	NWSC中央水質分析研究所、現場調査(ハンスハリ浄水場とその水源地)
16木	JICA(ネパール事務所)、官団員合流
17金	NWSC、MHPP、現場調査(シャイブー、バルク計画地点)
18土	休日
19日	現場調査(マノハラ計画地点及びモハンカルチュール、ハンスハリ浄水場)
20月	MHPP、NWSC
21火	MHPP、NWSC、メラムチ計画Bulk Distribution担当コンサルタント
22水	NWSC、MHPP、JICA(ネパール事務所)
23木	日本大使館、官団員離ネパール
24金	MEH Consultants(民間委託調査に係わる現地コンサルタント)、NWSC中央水質分析研究所、Dept. of Statistics、Dept. of Finance、Map Shop
25土	休日
26日	資料整理、分析
27月	資料整理、分析
28火	NWSC、Binnie Thames Water とMEH Consultants(民間委託調査に係わる現地コンサルタント)
29水	NWSC、現地建設会社(土木資料入手)、現場調査(マノハラ計画地点)
30木	NWSC、MWSDB、WB
31金	NWSC、中央水質研究所、CIMON、NESS(水質分析コンサルタント)
1土	資料整理、分析、報告書作成
2日	現場調査(バクタプール)、資料整理、分析、報告書作成
3月	MHPP、NWSC、日本大使館報告、JICA(ネパール事務所)報告
4火	資料整理
5水	Nepal発
6木	日本着

NWSC: Nepal Water Supply Corporation (ネパール水道公社)

MHPP: Ministry of Housing and Physical Planning (住宅・計画省)

MWSDB: Melamch Water Supply Development Board (メラムチ水供給開発委員会)

付属資料 2. 主要面談者一覧

住宅計画省

Mr. Shree Ram Shrestha Joint Secretary, Planning Division
Ministry of Housing & Physical Planning (MHPP)

メラムチ水道開発委員会

1. Mr. Dinesh C. Pyakural Executive Director
Melamchi Water Supply Development Board
(HMG/N)

2. Mr. Raj Kumar Malla Deputy Executive Director, HMG/N

ネパール水道公社

1. Mr. Lava Kumar Thapa General Manager,
Nepal Water Supply Corporation (NWSC)

2. Mr. K. N. Bhattarai Ex. General Manager, NWSC

3. Mr. N. M. Pradhan Senior Deputy General Manager, NWSC

4. Mr. Noor Kumar Tamarakar Deputy General Manager, NWSC

5. Mr. Tilak Mohan Bhandari Assistant Manager, NWSC

6. Mr. Dilli Raj Bajracharya Chief of Central Laboratory, NWSC

7. Mr. Gyanendra Bahadur Karki Microbiologist, Central Laboratory, NWSC

8. Mr. Chandra Lal Nakarmi Deputy Manager, Tirpureswor Branch, NWSC

メラムチ水道開発委員会関係者

1. Mr. Yoshihiro NABETA Team Leader, Project Management Consultancy
(鍋田 佳宏) Melamchi Water Supply Project (MWSP)

2. Mr. John T. Hancock Project Manager
Melamchi Water Supply Project (MWSP)
Engineering for Bulk Distribution
ADB Loan No. 1640 NEP (SF)

3. Mr. Tashi Tenzing Senior Sanitary/Environmental Engineer
The World Bank

民間委託調査関連現地コンサルタント

Mr. Narayan Govind Halwai Managing Director
MEH Consultants (P) Ltd.

水質分析コンサルタント

1. Mr. Gopal Nakarmi

Geologist (Research Officer)

Mountain Natural Resource Division

International Centre for Integrated Mountain
Development (ICIMOD)

2. Dr. Toran Sharma

Managing Director

Nepal Environmental & Scientific Services (P)
Ltd. (NESS)

ネパール国日本大使館

1. 小嶋 光昭

特命全権大使

2. 大西 英之

一等書記官

3. 石塚 忠範

一等書記官

4. 豊口 佳之

二等書記官

国際協力事業団ネパール事務所

1. 長谷川 健

所長

2. 矢部 哲雄

次長

3. 新井 和久

所員

4. Mr. Sourab Bickram Rana

所員

付属資料3. 収集資料リスト関連資料

No	Field	Title	Date	Type	Publisher/Collected Agency
1	City Planning	Regulating Growth: Kathmandu Valley Main Report Draft	Jul. 1995	Report	The World Conservation Union
2	Hydroology	Surface Water Records of Nepal, 1973-1976		Report	Ministry of Water Resources
3	Management	Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (Legislative Review)	May 1998	Report	MHPP, PSPC, WB
4	Management	Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (Operational Assessment)	May 1998	Report	MHPP, PSPC, WB
5	Management	Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (Impact of Management Option on Staffing)	May 1998	Report	MHPP, PSPC, WB
6	Management	Drinking Water Regulation, 2053		Report	HMGN
7	Management	Policy on the Participation of NGOs in Water Supply and Sanitation Programme	1996	Report	MHPP/Dept Water Supply and Sewerage
8	Management	Water Supply Regulation 2055(1998)	1998	Report	MHPP/Dept Water Supply and Sewerage
9	Management	National Water Supply Sector Policy (Policies & Strategies)	April 1998	Report	MHPP
10	Management	Management Contract for NWSC Operations in Kathmandu Valley- Key issues Strategy Paper - Opinions and Recommendations	Mar. 1999	Report	PSPC
11	Management	Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu Valley- Analysis of Operation and Maintenance Costs	May 1998	Report	MHPP, PSPC, WB
12	Management	Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu Valley- Financial and Economic Report	July 1998	Report	MHPP, PSPC, WB
13	Management	Privatization Act, 1994 (紛失)	May 1994	Paper	Ministry of Law, Justice and Parliamentary Affairs
14	Management	Nepal Water Supply Corporation Act, 1989	1989	Report	Ministry of Law and Justice
15	Management	NWSC Management Information Report March/April 1999	April 1998	Report	NWSC
16	Map	Around Kathmandu Valley (1:50,000)		Map	Himalayan MapHouse

No Field	Title	Date	Type	Publisher/Collected Agency
17	Tecking Guide Nepal(1:900,000)	1999	Map	Himalayan MapHouse
18	Geological Map of Nepal(1:1,000,000) base map 1993	1996	Map	Himalayan MapHouse
19	Kathmandu Valley (1:50,000)	1989	Map	
20	1:20,000 Topographic Map(Melamchi, 2785 03C)	1996	Map	HMGN/Dept of Survey
21	1:20,000 Topographic Map(Kathmandu, 2785 06A) 2 sheets	1996	Map	HMGN/Dept of Survey
22	1:20,000 Topographic Map(Banepa, 2785 07A)	1995	Map	HMGN/Dept of Survey
23	1:20,000 Topographic Map(Shivapuri, 2785 02C)	1994	Map	HMGN/Dept of Survey
24	1:20,000 Topographic Map(Ranipauwa, 2785 01D)	1996	Map	HMGN/Dept of Survey
25	1:20,000 Topographic Map(Bhaktapur 2785 06B) 3 sheets	1994	Map	HMGN/Dept of Survey
26	A Compendium on Environment Statistics 1998 Nepal	1998	Report	Central Bureau of Statistics
27	Nepal in Figures 1999	1999	Booklet	Central Bureau of Statistics
28	Statistical Pocket Book Nepal 1998	1999	Report	Central Bureau of Statistics
29	Report on the Nepal Labour Force Survey 1998/99	1999	Report	Central Bureau of Statistics
30	National Accounts of Nepal 1999	1999	Report	Central Bureau of Statistics
31	Statistical Year Book of Nepal 1999	1999	Report	Central Bureau of Statistics
32	Census of Manufacturing Establishments Nepal 1996-97 District Level	1997	Report	Central Bureau of Statistics
33	Economic Survey Fiscal Year 1998-99	1999	Report	Ministry of Finance
34	Nepal Living Standards Survey Report 1996 Main Findings Vol. 1	1996	Report	Central Bureau of Statistics
35	Nepal Living Standards Survey Report 1996 Main Findings Vol. 2	1996	Report	Central Bureau of Statistics
36	Report on Drilling at the Center of Manohara River	Jun. 1998	Report	Geotechnical Engineer
37	Urban Water Supply And Sanitation Rehabilitation Project (Final Report Feb. 1999 on Consumer Survey)	Feb. 1999	Report	NWSC
38	Urban Planning	Sept 1991	Report	Dept. of Housing and Urban Planning
39	Water Quality		Report	Melamchi Water Supply Development Board,ADB
40	Water Supply Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (NWSC Asset Assessment-Kathmandu Valley Vol.1)	May 1998	Report	MHPP, PSPC, WB

No Field	Title	Date	Type	Publisher/Collected Agency
41	Water Supply Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (NWSC Asset Assessment-Kathmandu Valley Vol.2- Asset Register Tables)	May 1998	Report	MHPP, PSPC, WB
42	Water Supply Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (NWSC Asset Assessment-Kathmandu Valley Vol.2- Asset Register Tables Part 2)	May 1998	Report	MHPP, PSPC, WB
43	Water Supply Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (NWSC Asset Assessment-Kathmandu Valley Vol.2- Asset Register Tables Part 3)	May 1998	Report	MHPP, PSPC, WB
44	Water Supply Nepal- Leak Detection and Waste Control Program Final Report Vol.1	Feb. 1996	Report	NWSC, IDA
45	Water Map Supply Pharping Water Production System and Chapagoan Production System			
46	Water Plan Supply Engineering for Bulk Distribution Design Report(CH2 and 9) (59に含む)	Oct 1999	Report	MWSDB
47	Water Plan Supply Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (Water Demand)	May 1998	Report	MHPP, PSPC, WB
48	Water Plan Supply Preparation of a Management Contract for the Urban Water Supply and Sanitation Services in the Kathmandu (Investment Plan Report)	May 1998	Report	MHPP, PSPC, WB
49	Water Plan Supply The 9th Development Plan (13.6 Drinking Water and Sanitation)	1998	Paper	MHPP
50	Water Plan Supply Evaluation Study of Kathmandu Water Supply Facility Improvement Project (Final Draft9)	Jan. 1998	Report	JICA Nepal Office
51	Water Plan Supply Grater Kathmandu Water Supply Project (Final Report) Vol. 1	Nov. 1992	Report	NWSC, UNDP, WB
52	Water Plan Supply Basic Design Study Report on the Project for Kathmandu Water Supply and Facility Improvement in the Kingdom of Nepal	July 1991	Report	JICA (JICA図書館)
53	Water Plan Supply Groundwater Management Project in the Kathmandu Valley (Final), Nov. 1990	Nov. 1990	Report	JICA (JICA図書館)
54	Water Plan Supply Manohara infiltration well and groundwater management for Bhaktapur and Madhyapur Thimi municipalities	1998	Report	NWSC

No	Field	Title	Date	Type	Publisher/Collected Agency
55	Water Plan	The Ninth Plan 1997-2002	July 1998	Report	National Planning Commission
56	Water Plan	Supply Status on Melamchi Water Supply Project	Feb. 2000	Report	MWSDB
57	Water Plan	Supply Status on Melamchi Water Supply Project	Mar. 2000	Report	MWSDB
58	Water Plan	Supply Design of Rehabilitation and Extension Works of Bhaktapur Water Supply System Draft Final Report Vol. 1 Design Report - Urban Water Supply and Sanitation Rehabilitation Project	Sept. 1997	Report	NWSC, IDA
59	Water Plan	Supply Engineering for Bulk Distribution Design Report	Oct 1999	Report	MWSDB
60	Water Plan	Urban Water Supply And Sanitation Rehabilitation Project for Kathmandu Valley Towns Final Design Report Distribution Network Rehabilitation and Extension Vol. 1 Main Report	Sept. 1993	Report	NWSC, IDA
61	Water Q & A	Supply Answers for the Preparatory Study on the Project for Improvement of Kathmandu Water Supply Facility in the Kingdom of Nepal	Mar. 2000	Report	MHPP, NWSC
62	Water Quality	The Assessment of Groundwater Pollution in the Kathmandu Valley, Nepal 1995-96	1997	Report	Froundwater Development Board, Dept. of Irrigation
63		MHPP Organization Chart		Paper	
64		Bhaktapur Distribution Networks		Map	NWSC
65		Madhapur Distribution Networks		Map	NWSC

MINUTES OF DISCUSSIONS
PREPARATORY STUDY ON THE PROJECT FOR
IMPROVEMENT OF KATHMANDU WATER SUPPLY FACILITIES
IN THE KINGDOM OF NEPAL

In response to the request of His Majesty's Government of the Kingdom of Nepal (hereinafter referred to as "the Nepal"), the Government of Japan decided to conduct a Preparatory Study on the Project for Improvement of Kathmandu Water Supply Facilities (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Nepal the Preparatory Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Eiichiro Cho, First Project Management Div, Grant Aid Management Department, JICA, and is scheduled to stay in the country from 9th March 2000 to 5th April 2000.

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

As a result of discussion and field survey, both sides confirmed the main items described on the attached sheets.

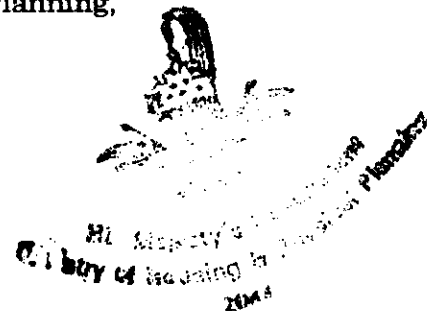
Kathmandu, 22th March 2000

長 英 - 郎

Mr. Eiichiro Cho
Leader ,
Preparatory Study Team,
Japan International Cooperation Agency,
Japan

Shrestha
Secretary

Mr. Shree Ram Shrestha
Joint Secretary,
Ministry of Housing and
Physical Planning,
Nepal



ATTACHMENT

1. Objective of the Project

The Objective of the Project is to improve the water supply services in Kathmandu, Lalitpur and Bhaktapur municipalities in terms of quality and quantity.

2. Project site

The site of the Project is Shaibhu, Manohara and Balkhu in the Kathmandu Valley.(see map in Annex-I).

3. Responsible and Implementing Agency

3-1. The Responsible Ministry is the Ministry of Housing and Physical Planning (hereinafter referred to as "MHPP").

3-2. The Implementing Agency is the Nepal Water Supply Corporation (hereinafter referred to as "NWSC").

4. Items requested by the Government of Nepal

After discussions with the Team, the items described in Annex-II were finally requested by Nepalese side. JICA will assess the appropriateness of the request and will report the findings to the Government of Japan.

5. Japan's Grant Aid Scheme

5-1. The Nepalese side understands the Japan's Grant Aid Scheme explained by the Team, as described in Annex-III.

5-2. The Nepalese side will take necessary measures, as described in Annex-IV, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.

6. Schedule of the Study

Subject to the decision by the Government of Japan, JICA will send the Basic Design Study Team to Nepal for further studies.

7. Other relevant issues

7-1. Nepalese side explained that Melamchi project took into

consideration of additional water supply capacity by the implementation of the Project.

7-2. Nepalese side expressed the priority among three sub-projects as follows :

1st : Manohara Project

2nd : Shaibhu Project

3rd : Balkhu Project

7-3. The results of the preparatory study by the team will be reported to the Government of Japan.

2

Annex-II

Items requested by Nepalese side

1. Manohara Project

- a) Construction of a run-of-river water intake on the Manohara river.
- b) Construction of a raw water conveyance facility from the water intake to the water treatment plant with a capacity of 23,000 m³/day.
- c) Construction of a water treatment plant with a treatment capacity of 23,000 m³/day.
 - Bio-filter : Capacity 8,000 m³/day
 - Flocculation basin : Vertical-baffling type
 - Sedimentation basin : Latitudinal-flow type
 - Sludge removal facility : Hopper type
 - Rapid sand filter : Self-washing type
 - Chemical feeding equipment: Coagulant (Alum), Alkali (Lime)
 - Disinfection equipment : Bleaching powder, Sodium hypochlorite
 - Clear water reservoir : Capacity 960 m³
- d) Construction of a service reservoir with a capacity of 3,000 m³
- e) Installation of a new distribution main with a diameter of 350 mm and a length of 7,500 m from the new reservoir to Kathmandu city.

2. Shaibhu Project

- a) Construction of a new service reservoir with a capacity of 4,500 m³.
- b) Installation of a new distribution main with a diameter of 350 mm and a length of 3,500 m from the new reservoir to Lalitpur city.
- c) Provision of disinfection equipment for bleaching powder and sodium hypochlorite.
- d) Provision of equipment and instruments for monitoring water quality.

3. Balkhu project

- a) Construction of a run-of-river water intake on the Balkhu river.
- b) Construction of a raw water conveyance facility from the water intake to the water treatment plant with a capacity of 13,000 m³/day.
- c) Construction of a water treatment plant with a treatment capacity of

13,000 m³/day.

- Flocculation basin : Vertical-baffling type
- Sedimentation basin : Latitudinal-flow type
- Sludge removal facility : Hopper type
- Rapid sand filter : Self-washing type
- Chemical feeding equipment: Coagulant (Alum), Alkali (Lime)
- Disinfection equipment: Bleaching powder, Sodium hypochlorite
- Clear water reservoir: Capacity 600 m³

Transmission pump: 4.8 m³/min × 3 sets

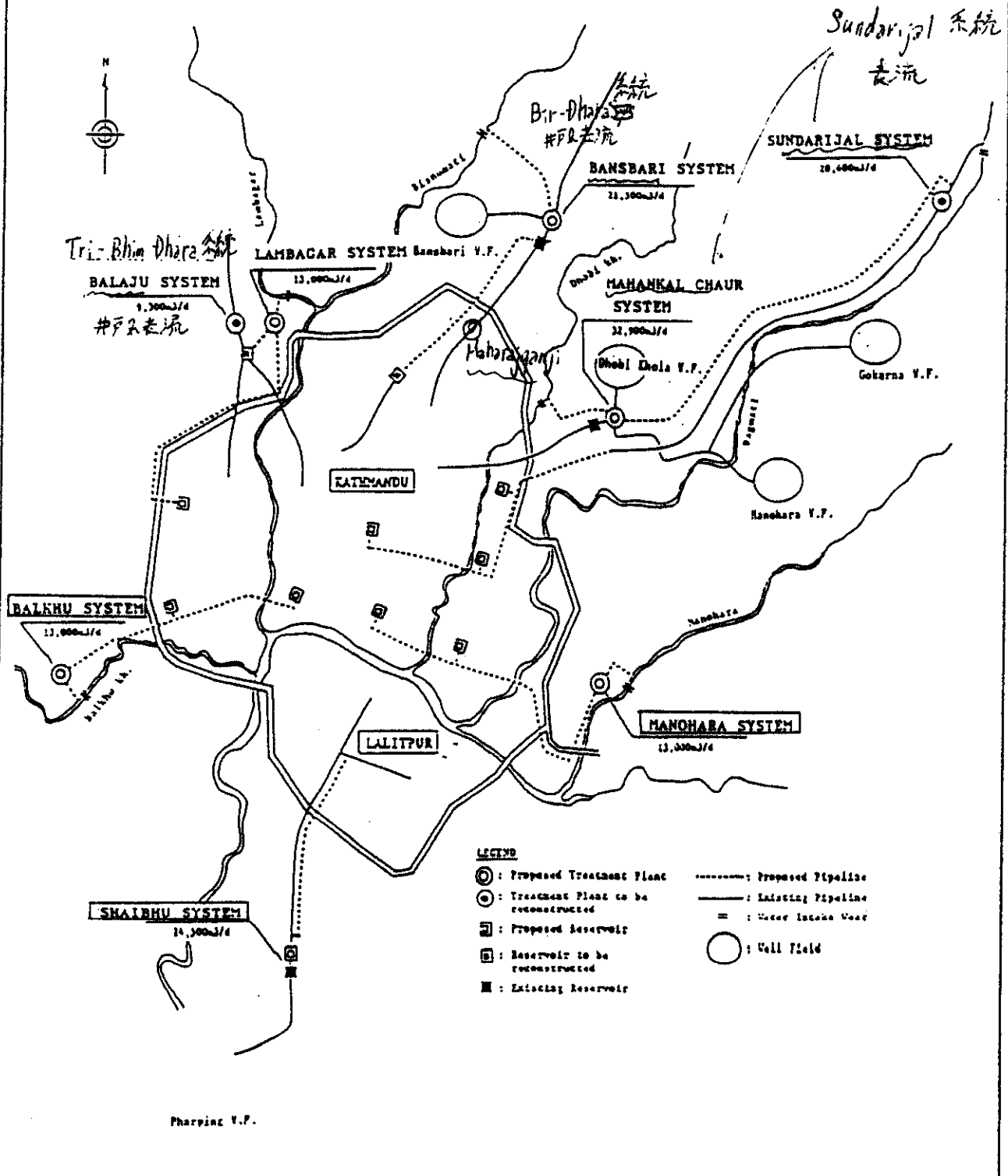
- d) Construction of two service reservoirs with a capacity of 1,850 m³ each
- e) Installation of a new transmission main with a diameter of 350 mm and 250 mm and a length of 1,800 m and 2,300 m, respectively.

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PROPOSED WATER SUPPLY SYSTEM



- LEGEND**
- ⊙ : Proposed Treatment Plant
 - ⊖ : Treatment Plant to be reconstructed
 - : Proposed Reservoir
 - ⊞ : Reservoir to be reconstructed
 - : Existing Reservoir
 - : Proposed Pipeline
 - : Existing Pipeline
 - = : User Intake Gate
 - : Well Field



HIS MAJESTY'S GOVERNMENT OF NEPAL
 GROUND WATER MANAGEMENT PROJECT
 IN THE KATHMANDU VALLEY
 JAPAN INTERNATIONAL COOPERATION AGENCY

ANNEX- I Location Map

Japan's Grant Aid Scheme

1. Grant Aid Procedures

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

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

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

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

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

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

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

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2. Basic Design Study

1) Contents of the Study

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

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

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

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

2) Selection of Consultants



For smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consultant firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchanges of Notes, in order to maintain technical consistency.

3. Japan's Grant Aid Scheme

1) Grant Aid

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

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

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

However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year by mutual agreement between the two Governments.

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- 4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

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

- 5) Necessity of the "Verification"

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

- 6) Undertakings required of the Government of the Recipient Country

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

- (1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- (2) To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (3) To secure buildings prior to the procurement in case the installation of the equipment.
- (4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.

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(5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.

(6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) Proper Use

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

(8) Re-export

The products purchased under the Grand Aid should not be re-exported from the recipient country.

(9) Banking Arrangement (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the verified contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

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Annex-IV. Major Undertakings to be taken by Each Government

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

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His Majesty's Government
MINISTRY OF HOUSING & PHYSICAL PLANNING

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SINGHADARBAR
Kathmandu, Nepal.

✓ Mr. Eiichiro Cho
Leader
Preparatory Study Team
Japan International Cooperation Agency
Tokyo, Japan.

Date:- 30th march, 2000

Re:— Kathmandu Water Supply Facility Improvement Project.

Dear Mr. Cho,

We refer to the recent discussions held in Kathmandu between JICA Preparatory Study Team and His Majesty's Government of Nepal represented by this Ministry concerning a construction site of Manohara Water Treatment Plant proposed under the captioned project. We noted the concern, and have the honour to inform you that we had discussions with Melamchi Water Supply Development Board (MWSDB) on either to delete or change the location of a service reservoir which is being planned under the Melamchi Project to construct at the same site as it of the above water treatment plant.

As a result of the discussion with (MWSDB) on this matter, they have accepted our request to delete the planned service reservoir at Bode, if the Government of Japan would extend their assistance to HMG/N for the project. Furthermore, we assure you that MHPP is confident to convince ADB in this matter.

We would appreciate it greatly if the project is suitable and acceptable for Japan's Grant Aid and be realised soon.

Looking forward for your kind consideration and assuring you of our best cooperation at all times.

With regards,

Sincerely yours,

(K. Basnyat)

Secretary

Secretary

Copy to:

1. Embassy of Japan
Kathmandu, Nepal.
2. JICA Nepal Office,
Kathmandu, Nepal.
3. Nepal Water Supply Corporation,
Kathmandu, Nepal.