

10. そ の 他

10. その他

10.1 収集資料リスト

10.2 質問書 (回答含む)

10.3 要請書

1. 発電設備 (既存、建設中、計画) : FY 96/97 A YEAR IN REVIEW
2. TOTAL AVAILABLE ENERGY AND PEAK DEMAND : FY 94/95-96/97 A YEAR IN REVIEW
3. ELECTRICITY SALES : FY 94/95-96/97 A YEAR IN REVIEW
4. LOAD FORECAST : FY 94/95-96/97 A YEAR IN REVIEW
5. LOAD FORECAST / for Integrated Nepal Power System (INPS) : FY 94/95,96/97 A YEAR IN REVIEW
6. RURAL ELECTRIFICATION CRITERIA (EXEC-SUM 1)
7. POWER DEVELOPMENT MAP OF NEPAL
8. POWER SUPPLY NETWORK IN NEPAL
9. Generation Expansion Sequence, Historical Account of Losses : FY 96/97 A YEAR IN REVIEW
10. RAPID ACTION PROJECTS : FY 94/95 A YEAR IN REVIEW
11. Earthquake Events in the Mid-Western Nepal Himalayas
12. UNIT RATES OF GEOTECHNICAL INVESTIGATION
13. MICROSEISMIC EPICENTRE MAP OF NEPAL HIMALAYA AND ADJOINING REGION-(March 1994 December 1996) : National Seismological Centre
14. PRECIPITATION SUMMARY (1971-1986) / Jamu & Surkhet
15. MONTHLY PRECIPITATION SUMMARY (1987-1994) / Surkhet
16. 気象資料 (蒸発量、日照、風速、土中温度等, 1985-1990) / Surkhet
17. 気象資料 (風向、土中温度等, 1976-1984) / Surkhet
18. MEAN · MAXIMUM · MINIMUM - MONTHLY AND YEARLY DISCHARGES (in cumec) / Bheri River, St.No.270
19. 月別気象資料 (気温、湿度、降雨, 1973-1994) / Surkhet
20. 発電計画データ
21. National Environmental Impact Assessment Guidelines 1993
22. Environmental Act (1997)
23. Royal Bardia National Parks Regulation (ネパール語)
24. Information on Bheri-Babai Hydroelectric Project
25. Annex-III Field investigation works carried out by HMG / N
26. Annex-II Information requested by Study Team (主に中西部地域の電化等)
27. Geological Map of Nepalganj-Surkhet Area 1/63,630 - (2027) : Dept. of Mines & Geology
28. Digital Database of Royal Bardia National Park & Buffer Zone / A Final Rept. Submitted to WWF Nepal Program, 1997 : Pawan Kumar Ghimire
29. Royal National Park, 1996 : Dept. of National Parks & Wildlife Conservation
30. Medium Hydropower Study Project / Phase 1- Fine Screening & Ranking Rep., Vol.1 of 6, Main Rep. (Mar. 1997) : NEA & CIWEC
31. Environmental Impact Assessment Guidelines for the Forestry Sector, 1995

- 3 2 . Environmental Conservation Act , 1997
- 3 3 . Environmental Conservation Rules, 1997
- 3 4 . Babai Irrigation Project / Right Bank Command Area
- 3 5 . BABAI IRRIGATION PROJECT / BHERI DIVERSION AND SARDA SCHEME
- 3 6 . Royal Bardia National Parksのパンフレット

Questionnaire

on
the
Development
of
Bheri-Babai Hydro Electric Power Project

September 1997
Project Formation Study Team of JICA

1. Electric Power: Situation in Nepal and Western Region

Item	Description	Availability	Notes
1. Existing Supply Facilities	<ul style="list-style-type: none"> - Power Plants (installed capacities), substations and transmission lines - Schematic and single line diagrams - Power Plants for private use 	A A A	
2. Demand and Supply Records	<ul style="list-style-type: none"> - Record of peak kW, kWh including load curve (annual, monthly and daily), Index of economics (GNP, GDP, etc.) from 1976 to 1996 - Record of private use 	A	
3. Demand Forecast	<ul style="list-style-type: none"> - Average power demand (kW), annual consumption (kWh) from 1986 to 1996 including load curve (annual, monthly and daily) <ul style="list-style-type: none"> a) Residential b) Commercial c) Public and others d) Industry e) Total - Energy loss - Electrification 	A A	
4. Power Development Program	<ul style="list-style-type: none"> - Long term demand (max. kW, kWh) forecast including load curve (annual, monthly) from 1996 to 2017 and basis of forecast - Rural electrification program 	A A	
5. Extension Plan on Power Distribution	<ul style="list-style-type: none"> - Installed capacity, firm and secondary energy of each power plant from 1996 to 2017 including power plants for private use - Transmission Lines and Substations 	A	

Note: A: Available NA: Not Available

2. Topographic Map on Project Area

0/30/24

Item	Description	Availability	Notes
1. Topographic Map covering Bheri and Babai River Basin	-Scales 1:250,000 1: 50,000 1: 25,000	NA A NA	○ ○
2. Aerophotograph	-Scales 1: 20,000 1: 25,000 1:	NA NA	
3. Topographic Map at Reservoir Area	-Scales 1: 5,000 1: 20,000	NA	○
4. Topographic Map at Major Structure Site	-Scales 1: 1,000 1: 500	A A NA	○ <i>under making</i>
5. Longitudinal Section of the River	-Vertical scale 1: Horizontal scale 1:		
6. Survey	-List and data of triangulation net for Project site -List and data of leveling net for Project area -List and data of bench-marks near Project area	NA NA NA	
7. Local Contracts for Mapping & Ground Survey	-for Aerial Photogrammetric Mapping -for Ground Survey	NA NA	
8. Current Prices	-for Aerial Photogrammetric Mapping -for Ground Survey	NA A	○

Note: A: Available NA: Not Available

3. Geological Data

Item	Description	Availability	Notes
1. Published Report on Earthquakes or Volcanic Activities	-Extensive Published Report on Earthquakes and/or Volcanic Activities	A	○ (Earthquakes only)
2. Land Use Map	-Extensive Land Use Map including Project Area (Scale 1: 50,000)	A	○
3. Published Map on Rock and Soil Classification	-Extensive geological map with geological structures, distribution of soil and their explanation (Scale 1: 63,760)	A	○
4. Geological Data	-Plans, profiles and section	A	Under investigation
a) Geological Drawings and Geological Report	-Geological investigation reports	A	"
b) Result of Geological Investigation Work	-Expanded drawings of test audits or trenches	NA	—
	-Drilling log diagrams	A	Under investigation
	-Results of permeability test and loading test - lateral load	A	"
	-Results of Seismic Exploration	A	"
	-Rock tests (deformation and shearing)	A	"
	<i>an unique description test</i>	A	"
5. Dam	-Location map of existing, under construction and planning	NA	
	-Geological and Hydrological Reports on existing, under construction and planning	NA	
	<i>expansion to Simabul Formation</i>		

Note: A: Available NA: Not Available

3. Geological Data (Continue)

Item	Description	Availability	Notes
c) Water Quality & Quantity d) Previous Reports	<ul style="list-style-type: none"> - Pumping test, chemical analysis - Extensive hydro-geological data on Bheri-Babai Basin 	A	O
7. Construction Materials a) Location b) Material Test	<ul style="list-style-type: none"> - Quarry and concrete aggregate sites - Investigation data - Results of Laboratory Test 	A " " NA	O O O
8. Local Contractors for Geological Investigation	<ul style="list-style-type: none"> - Drilling - Geophysics (Seismic Exploration) - Soil Mechanics - Insight Test and Laboratory Test - Audit Investigation - Engineering and Consulting 	NA " " " " "	
9. Current Prices a) Geological Investigation	<ul style="list-style-type: none"> - Drilling - Geophysics (Seismic Exploration) - Soil Mechanics - Insight Test and Laboratory Test - Audit Investigation - Engineering and Consulting 	A " " " " "	O O O O O O
b) Wages of Laborer c) Mobilization and Demobilization		A	O

Note: A: Available NA: Not Available

4. Hydrological and Meteorological Data

> 10 years

Item	Description	Availability	Notes
1. Run-off	-All available data at water gauging station including location maps in Western Region	A	
2. Flood Flow	-By physical method such as probable maximum method -By statistical method -Recorded maximum flood	NA	
3. Sedimentation	-Suspended material and bed material	NA	
4. Evaporation	-Monthly average (observed or estimated evaporation)	A	
5. Precipitation	-All available precipitation data for wet and dry season including location map of stations	A	
6. Weather	-Temperature, humidity and thunder	A	
7. Water Quality	-Water quality -Water temperature	CNA A	

Note: A: Available NA: Not Available

5. Planning Data

Item	Description	Availability	Notes
1. Development Plans of the River Basin	<ul style="list-style-type: none"> -Development strategy(policy)of the Region -Status of the Karnali Multipurpose Project(KMP) -Existing and on-going projects located downstream of the intake dam on Bheri River 	A	
2. Transmission Line	<ul style="list-style-type: none"> -Topographic maps at scale <u>1:50,000</u> along transmission line route 	A	
3. Regulation, Code, Criteria and so forth of Survey and Civil Works in and out of the Bardiya National Park	<ul style="list-style-type: none"> -Civil work(dam,tunnel,penstock,road,etc.) -Building,machine and material -Communication -Mapping and Geological Survey -Civil Works (dam,tunnel,penstock,road,spoil bank,etc) 	A	
4. Site condition for construction	<ul style="list-style-type: none"> -Power Source -Transmission Line Route -Telecommunication (telephone,telex,fax,telegram etc..) 	NA	
5. Executing Organization for Survey Work	<ul style="list-style-type: none"> -By EDC personnel directly or other organization 	NA	
6. Relevant Studies	<ul style="list-style-type: none"> -Study Reports on KMP 	NA	
7. Other Projects	<ul style="list-style-type: none"> -Information on other definite Projects in completion of F/S and D/D 	A	

Note: A: Available NA: Not Available

6 Information on Environmental Aspect

Item	Description	Availability	Notes
1. Environmental Act or Regulations	-Especially for the development project in National Park	A	
2. Guidelines for Environmental Impact Assessment	-do	A	
3. Inventory of Natural and Cultural Assets	-In Western Region	NA	
4. Resettlement and Inundation in project site	 -Number of houses -Population -Paddy field area -Upland crop area -Grass land area -Residential area -Road and river area -Mining area -Forest sources area -Others -Relocation roads -Land use Maps -Relocation bridges -Unit prices of each item 		

Note: A: Available NA: Not Available

(Continued)

Item	Description	Availability	Notes
5. Private Land and Forest	-Schemes of Land use, forest etc.	A	
6. Information & Regulation on Preserved Area	-Royal Bardiya National Park -Other Area to be Preserved	A A	
7. Local contractor for Environmental Impact Assessment	-By EDC in cooperation with other organization(s), such as university and/or research institute -Private consultant	A	

Note: A: Available NA: Not Available

7. Others

Item	Description	Availability	Notes
1. Organization in Charge of and/or concerned to the Project	-ministerial, regional, provincial organization	A	
3. Published Statistics	-Statistics of economy, industry, trade etc. in Nepal and the Project area (Annual Electric Report, Statistic Yearbook etc.)	A	
4. Labor	-Labor working law or regulation and unions (if any) -Public or official holidays -Daily working hour -Premium payment for holiday and overtime working	A	
5. Economic Development Plan and Energy policy			
6. Possibility of Civil Works Construction in the Bardiya National Park	-Access road -Tunnel and spoil bank -Outlet channel -Penstock -Electrical power plant on the ground	A " " " "	With permission by MoFSC " " "
7. Existing Underground Power Plant	-Site, scale, constructed, period and so forth	NA	

Note: A: Available NA: Not Available

(MOFNPWP)

ELECTRICITY DEVELOPMENT CENTER
A BRIEF NOTE
ON
BHERI-BABAI DIVERSION PROJECT
JANUARY-1995

1. BACKGROUND:

During the master plan study of water resources development of Upper Karnali and Mahakali river basins, conducted by JICA in 1993, Bheri-Babai Diversion Project was identified as the top priority scheme in these basins and a preliminary study was conducted. The master plan report further recommended that a feasibility study of this scheme should be done.

2. DESCRIPTION:

Bheri-Babai Diversion Project has been conceived to be developed as a diversion scheme with a 35 m high dam at Bheri river and underground power house near Bheri river with a generating capacity of 83 MW. The tailrace tunnel is 9 kms long which discharges the water to Babai river about 20 km upstream of the existing Babai Irrigation Project. The Bheri diversion water discharge of 58 m³/sec along with the Babai discharge would be sufficient to irrigate the command area of 74,000 ha in Bardia and Banke districts. The project cost at preliminary study level is US \$ 174 million which does not include the irrigation costs.

3. LOCATION:

Bheri dam is located in Surkhet district approximately 5 Kms downstream of the Bheri bridge on Kohalpur-Surkhet road.

4. ISSUES & PROBLEMS:

The diversion of water from Bheri river to Babai river affects the power generation of Karnali (Chisapani) Multipurpose Project (KMP). Therefore during the feasibility study of Bheri-Babai Diversion Project, this effect on KMP should also be studied.

5. SUGGESTED ACTIONS:

Feasibility study of this project should be done as soon as possible. Tentative cost estimate of the feasibility study is around US \$ 2.6 million. The detailed scope of work and TOR for carrying out the above study have already been prepared.

BHERI-BABAI HYDROPOWER SCHEME (BR1)
SALIENT FEATURES:

- A) Project Location - Surkhet and Bardiya district
- B) Project Type - Run-of-River type
- C) Hydrology
- Catchment area - 11,815 sq. km at intake site
 - Av. annual rainfall - 1,191 mm
 - Av. annual discharge - 405.4 m³/sec
 - Max. monthly flow - 2043.4 m³/sec
 - Min. monthly flow - 59.5 m³/sec
 - 1:1000 year flood - 9,894 m³/sec
- D) Headworks
- Diversion Weir with side intake and desanding basin.
 - Dam height - 35 m
 - Crest length - 220 m
 - Full supply level (FSL) - E.L. 420.0 m
 - Tail Water level (TWL) - E.L. 240.0 m
 - Gross head - 180 m
 - Crest of intake dam - E.L. 425.00 m
 - Crest of Weir - E.L. 405.00 m
 - Gate type - Tainter gate
 - Capacity (200 yrs.flood) - 8,480 m³/sec
 - Gate size - 5 each 15 m x 15 m
- E) Desanding Chamber
- No. of bays - 3
 - Size - 150 m x 15 m
 - Nominal size of trapped particle - 0.20 mm
- F) Power generation
- Max. plant discharge - 58.2 m³/sec
 - Peaking operation hour - 8 hours
 - Installed capacity - 82.9 MW
 - Annual energy generation - 601 GWh
 - Penstock length - 350 m
- G) Tailrace
- Tailrace tunnel - 9000 m
 - Shape - Circular
- H) Cost
- Construction Cost (at 1993 Price level) - US \$ 174 million
 - Capacity Cost - US \$ 2096/kW
 - EIRR - 13.4%

1. Project Digest

1.1 Project Title: Feasibility Study of Bheri River Hydropower Development Project

1.2 Location: Mid-Western Development Region, Nepal
(Location map is attached in Annex I)

1.3 Implementing Agency:

Name of Agency: Electricity Development Centre, Ministry of Water Resources HMG/Nepal

Number of the staff of the agency:

Hydropower/Civil Engineer	35
Electrical Engineer	16
Mechanical Engineer	4
Geologist	5
Hydrologist	2
Environmental Engineer	1
Project Economist	1
Surveyors	2
Computer Programmer	1
Under Secretary	2
Section/Account Officer	3

Budget allocated to the Agency: 96.7 Million Nepalese Rupees for the fiscal year 1995-96. (Approx. 11.73 Million US \$)

Organization chart: (Organization chart is attached in Annex II)

1.4 Justification of the Project:

-Present condition of sector:

The present installed capacity of electric power system in the country in total is 278 MW which includes 233 MW of hydropower.

It has been found on the basis of the demand projection of electricity for up to year 2001 that between 300 and 400 MW of electricity must be added to the national grid electricity system by the end of this century. To meet this demand feasible projects like Kaligandaki (144 MW), Khimti (60 MW) and Arun-III (402 MW) may be executed within a period of 5-15 years.

Therefore, it is necessary to make alternative arrangement to meet the demand of the country till the above projects come into operation after their completion.

-Sectoral development policy of the national government:

The policy of the HMG/Nepal regarding development are

- a) To carry out hydropower projects of various standards and capacities to meet the interim and long term electricity requirements.
- b) To give emphasis to the program of rural electrification in order to render assistance in the development of agricultural production and cottage and small scale industries in the hill and terai regions.
- c) To give emphasis to the development of transport system to be run hydroelectric power in order to substitute the petroleum products.
- d) To utilize the indigenous labor, skill and resources as well as a foreign investment and technology for the development of hydropower.
- e) To export hydroelectricity produced in excess to the national demand.
- f) To extend the use of electricity for making the minimum utilization of fuel wood and to render necessary assistance in the conservation of forest and environment.
- g) To diversify the utilization of electricity.
- h) To make the supply and distribution of electricity regular and reliable.
- i) to have maximum control in the leakage of electricity.
- j) To make electricity sufficiently available to the people and to make the rate of electricity tariff more practical.

-Problems to be solved in the sector:

Due to shortage of power in the country, the development of the country is being adversely affected. Thermal plants are being considered although not desirable to meet the power demand in short term basis. Hence to choose a medium sized project, a number of hydropower projects are to be studied at least to a feasibility level. Choosing economically and otherwise the best project out of a number of available projects would facilitate to achieve national development through proper utilization of natural resources.

-Outline of the Project:

Type: Run-off-River scheme
Diversion: 8000 m from Bheri basin to Babai basin.
Diversion discharge: 58.2 m³/sec
Installed Capacity: 82 MW
Annual Energy: 393 GWH
Irrigation: 70,000 ha
EIRR: 12.1%

-Purpose (Short-term objectives) of the Project:

The Project, if built, will have a capacity of 82 MW of hydropower which will help reduce the deficit in power supply to the National grid.

-Goal (Long-term objective) of the Project:

Increase in power supply to the national power grid will have positive effect in the industrial development of the country. Also, it will replace import of fossil fuel for generation of electricity which in turn will save badly needed foreign currency for the other sectorial development.

-Prospective beneficiaries:

Industrial sector of Nepal as well as domestic sector.

-The Projects priority in the National Development/ Public Investment Program:

Top priority is being given to develop hydropower projects in the National development plan, for which study of different available medium sized hydro projects are needed. This project is also a probable candidate project to be studied.

1.5 Desirable or scheduled time of the commencement of the Project:

January 1997

1.6 Expected funding source and/or assistance (Including external origin):

Japan International Cooperation Agency (JICA), Government of Japan.

1.7 Other Relevant Project, if any:

2. Terms of reference of the proposed study.

2.1 Necessity/Justification of the Study

Due to the shortage of power supply to the national and regional power demands, installation of a hydropower plant with a capacity of 50 to 100 MW is an urgent requirement. To select the best project out of number of available projects, the study level of these projects are to be brought to a feasibility study level. This project being a very attractive project, feasibility study of the project is proposed to be carried out.

2.2 Necessity/Justification of the Japanese Technical Cooperation.

The Government of Japan has been successfully rendering HMG/Nepal technical and financial assistance in implementing resources development projects. Japanese developed technology will be very beneficial to the development of water resources of Nepal and also in transferring technical know-how from Japanese experts to the Nepalese technical personnel.

2.3 Objective of the Study

The objective of the study is to formulate an optimal development plan for the Bheri River Hydropower Development Project and to assess its technical, economical and financial viability.

2.4 Area to be covered by the Study

Preliminary Investigations, Field Investigation and Feasibility level design study of a hydropower project.

2.5 Scope of the Study :

Preliminary Investigation

Review of previous study reports

- Field reconnaissance
- Power Demand Projection
- Hydrological Analysis
- Environmental & Socio-economic Development Concept

Field Investigation :

- Topographic Survey
- Geological Investigation
- Environmental & Socio-economic impact assessment water balance study.

Alternative Study

Feasibility Design

- Feasibility level design
- Construction planning
- Cost estimate
- Economic and financial evaluation
- Evaluation of the project.

2.6 Study schedule

The schedule is attached in Annex III

2.7 Expected Major Outputs of the Study

The feasibility study report of Bheri River hydropower development project.

2.8 Request of the study to other donor agencies, if any;

None

- 2.9 Other relevant information, if any.
3. Facilities and information for the Study Team, etc.
- 3.1 Assignment of counterpart personnel of the implementing agency for the study (number, academic background, etc.)

Counterpart personnel could be assigned to the project as per requirement from the pool of staff mentioned in section 1.3.

- 3.2 Available data, information, documents, maps etc. related to the study;

The list is attached in Annex IV.

- 3.3 Information on the security conditions in the study area.

Excellent

4. Global Issues (Environment, Women in Development, Poverty, etc.)
- 4.1 Environmental components of the Project, if any: Forestry and Environmental Management.
- 4.2 Anticipated environmental impacts by the Project, if any; Impacts on wild life, forest and aquatic life is anticipated.
- 4.3 Women as main beneficiaries or not:
Possible secondary beneficiary to women.
- 4.4 Project components which requires special consideration for women, if any:
- 4.5 Anticipated impacts on women caused by the project, if any;
- 4.6 Poverty reduction components of the projects, if any:
Employment opportunity will be improved.
- 4.7 Any constraints against the low income people caused by the Project;

None

5. Undertakings of the Government of (Nepal)

In order to facilitate smooth and efficient conduct of the Study, the Government of Nepal shall take necessary measures:

- 5.1 to secure the safety of the Study Team.
- 5.2 to permit the members of the Study Team to enter, leave and sojourn in (the recipient country) in connection with their assignment therein, and exempt them from alien

registration requirement and consular fees.

- 5.3 to exempt the Study Team from taxes, duties and any other charges on equipment, machinery and other materials brought into and out of (the recipient country) for the conduct of the Study.
- 5.4 to exempt the study Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Study Team for their services in connection with the implementation of the Study.
- 5.5 to provide necessary facilities to the Study Team for remittance as well as utilization of the funds introduced in (the recipient country) from Japan in connection with the implementation of the Study.
- 5.6 to secure permission or entry into private properties or restricted areas for the conduct of the Study.
- 5.7 to secure permission for the Study to take all data, documents and necessary materials related to the Study out of (the recipient country) to Japan.
- 5.8 to provide medical services as needed. Its expenses will be chargeable to members of the Study team.
6. The Government of (Nepal) shall bear claims, if any arises against member(s) of the Japanese Study Team resulting from, occurring in the course of or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the member of the Study Team.
7. Electricity Development centre (EDC) shall act as counterpart agency to the Japanese Study Team and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

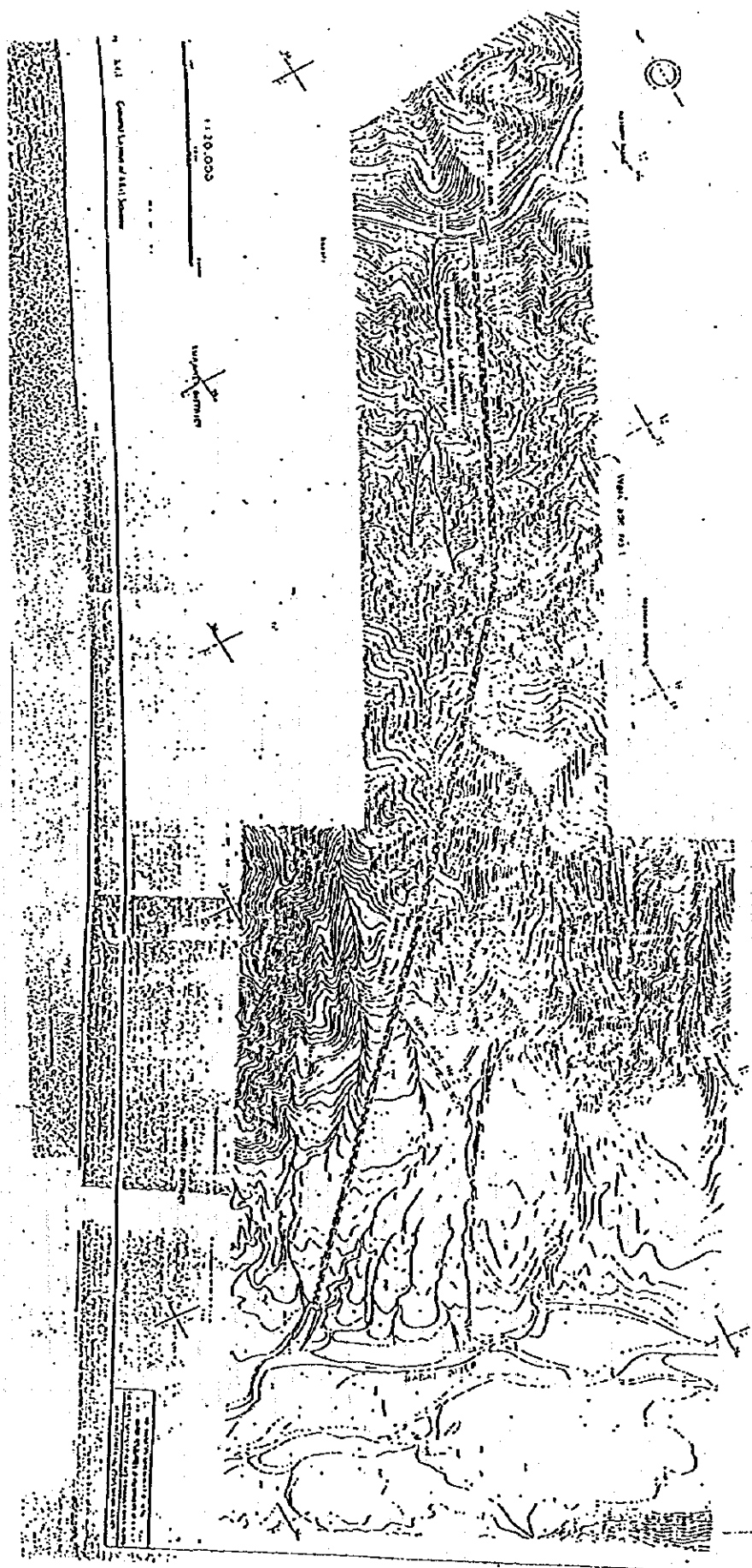
The Government of (Nepal) assures that the matters referred in this form will be ensured for a smooth conduct of the Development Study by the Japanese Study Team.

Signed :

Titled :

On behalf of the Government of Nepal :

Date :



HIS MAJESTY'S GOVERNMENT OF NEPAL
MINISTRY OF WATER RESOURCES

ELECTRICITY DEVELOPMENT CENTRE

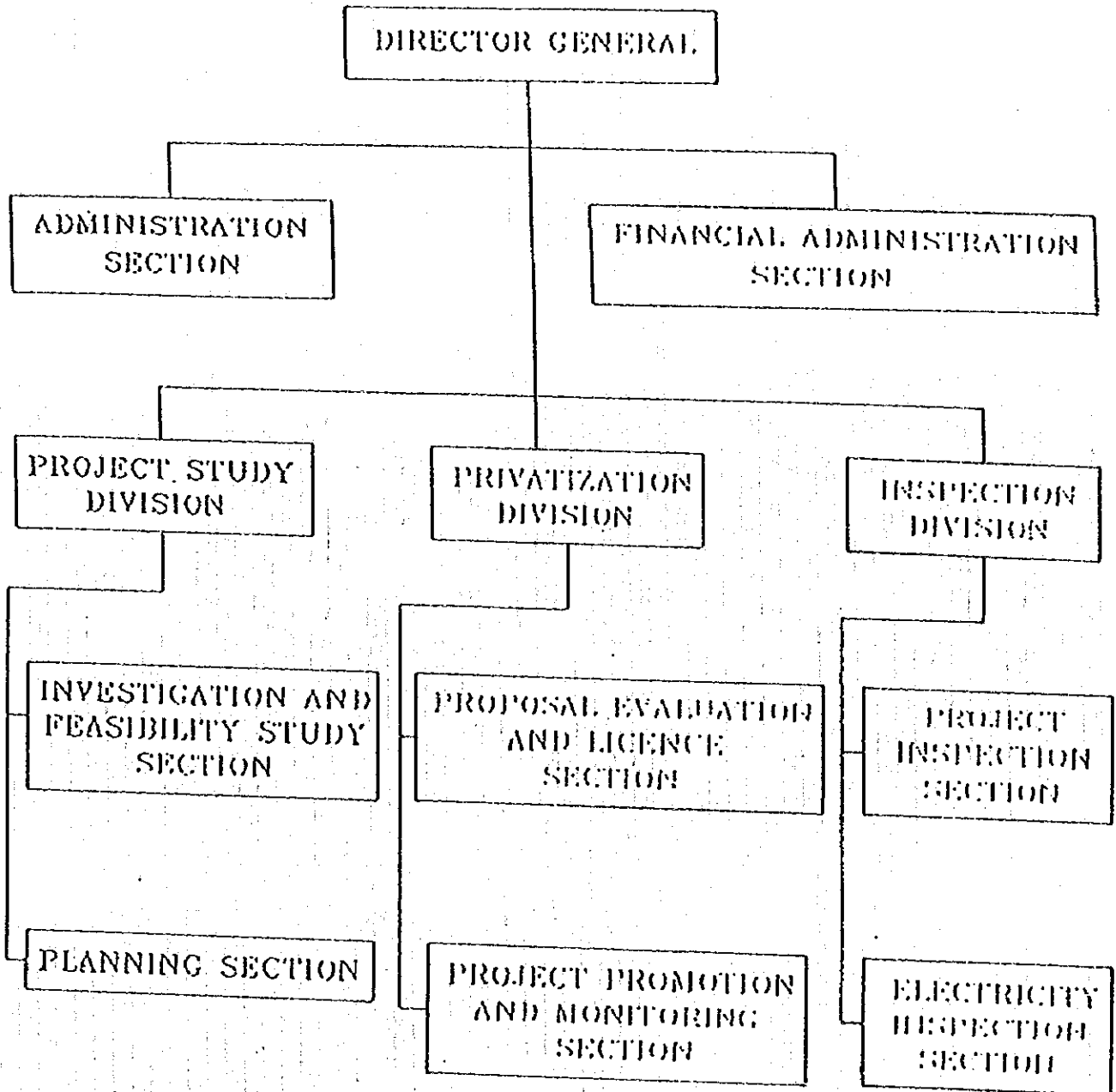
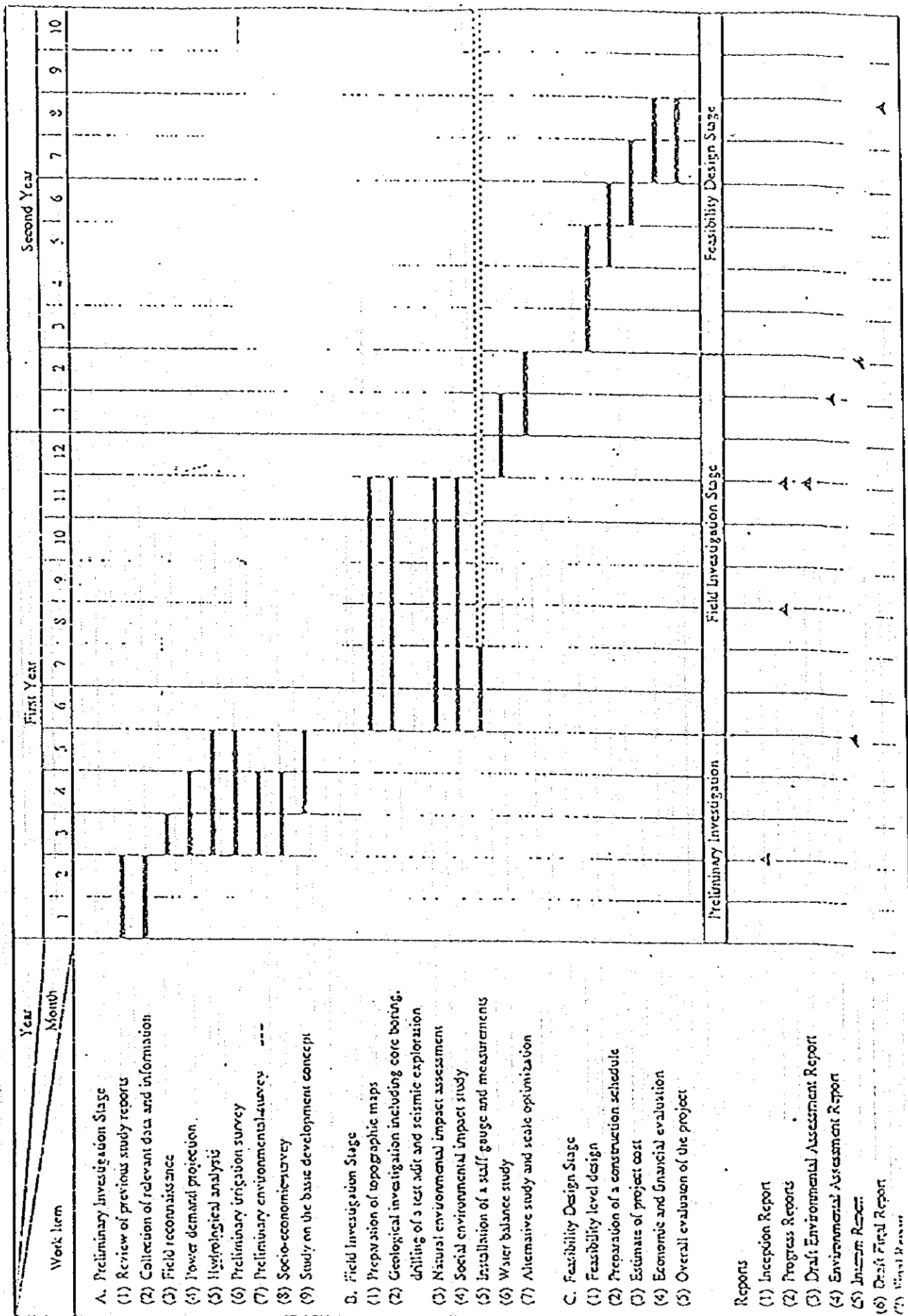


Figure 1 Work Schedule



Title of Data and Documents Collected	Authors / Organizations	Year of Issue
(1) National and regional socio-economic data		
- Statistical Year Book of Nepal	Central Bureau of Statistics	1989
- Statistical Year Book of Nepal Development Co-operation	UNDP	1987
- Census of Manufacturing Establishments Nepal	Central Bureau of Statistics Administrative	1986
- Population Census 1991	Central Bureau of Statistics Administrative	1991
- Population Density Maps	Ministry of Works and Transport	1988
- Population of Nepal - 1981 Census	Central Bureau of Statistics	1981
- Economic Survey, Fiscal Year 1990/91	Ministry of Finance	1990
- Agricultural Statistics of Nepal 1990	Ministry of Agriculture	1990
- Migration Statistics from Demographic Sample Survey	Central Bureau of Statistics, 1986/87	1988
- Population Monograph of Nepal	Central Bureau of Statistics, 1986/87	1987
- Census of Manufacturing Establishment Nepal 1986/87	Central Bureau of Statistics, 1986/87	1988
- Quarterly Economic Bulletin	Nepal Rasra Bank	1991
- Population Census 1981 (Economic Characteristics)	Central Bureau of Statistics	1984
- Four Monthly Statistical Bulletin	Central Bureau of Statistics	
- Multipurpose Household Budget Survey	Central Bureau of Statistics	
- Analysis of 1981/82 National Sample, Census of Agriculture of Nepal	Central Bureau of Statistics	
- Health Information Bulletin 1991	Ministry of Agricultural	1992
- Educational Statistics of Nepal 1989	Ministry of Health	1990
- Industrial Statistics 1990/91	Ministry of Education	1991
- The Changing Gevecology of Karsu Zone	Ministry of Industry	
- Budget Speech of the Fiscal Year 1991-1992	Agricultural Projects Services Corp.	
	Ministry of Finance	1992
(2) Policy related to national and regional water-resources development		
- Approach to the Eighth Plan 1992-97	National Planning Commission	1991
- Laws relating to Water Resources in Nepal	S.N. Upadhyay, WECS	1991
- Energy Sector Synopsis Report 1985/86	MWR	1986
(3) Institutional organization related to water resources development		
- Central Organization of Nepal	Ministry of General Administration	1991
- Organization of Ministry of Water Resources	MWR	
- Organization of Other Related Agencies		

Title of Data and Documents Collected	Authors / Organizations	Year of Issue
<ul style="list-style-type: none"> - Organization of Other Related Agencies 		
(4) Development economy		
<ul style="list-style-type: none"> - A Comparative Analysis of Development Regions 	Central Bureau of Statistics	1987
(5) Land use		
<ul style="list-style-type: none"> - Land Inventory 	Ministry of Forest	1977
<ul style="list-style-type: none"> - Basic Inventory for Central Assessment of Land Degradation 		
<ul style="list-style-type: none"> - Land Resources Mapping Project 	Kenning Earth Sciences Limited / Gov. of Curdahi	1986
<ul style="list-style-type: none"> - Summary Report 		
<ul style="list-style-type: none"> - Land Utilization Report 		
<ul style="list-style-type: none"> - Land Utilization Report, Appendix 1 		
<ul style="list-style-type: none"> - Land Utilization Report, Appendices 2-3 		
<ul style="list-style-type: none"> - Land Utilization Report, Appendices 4-10 		
<ul style="list-style-type: none"> - Land Capability Report 		
<ul style="list-style-type: none"> - Economics Report 		
<ul style="list-style-type: none"> - Water Resources Report 		1984
<ul style="list-style-type: none"> - Geology Report 		1986
<ul style="list-style-type: none"> - Agriculture/Forestry Report 		1986
<ul style="list-style-type: none"> - Land Systems Report 		
<ul style="list-style-type: none"> - Land Utilization Mappings , 1: 125,000 		
<ul style="list-style-type: none"> - Land Capability Mappings , 1: 125,000 		
<ul style="list-style-type: none"> - Land System Mappings , 1: 125,000 		
<ul style="list-style-type: none"> - Land Utilization Mappings , 1: 50,000 		
<ul style="list-style-type: none"> - Land Capability Mappings , 1: 50,000 		
(6) Topographic maps and aerial photographs		
<ul style="list-style-type: none"> - Nepal in Maps, Atlas of Nepal 	Educational Enterprise PVT. Ltd.	1989
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