(2) Supervisory in Bhutan

The consulting firm will send to Bhutan its personnel at critical points such as a pre-construction meeting, delivery to the sites of materials and equipment, check of installation/erection of equipment, field testing and tests on completion, and will guide and supervise the contractor thereby completing the required work and obligations within the period set forth in the Exchange of Notes.

5-4 Procurement Plan

The sources of procuring materials and equipment for the Project have been determined in overall consideration of prices and quantities of Indian-made products and various conceivable problems which might be encountered during construction, based upon the results of market surveys in Bhutan.

The sources of such procurement are as follows in principle.

- (1) Bhutanese products, if usable and available, will be utilized to the all possible extent.
- (2) Indian-made steel materials and miscellaneous materials easily obtained in Bhutan will be utilized.
- (3) Major materials, equipment and supplies other than the materials mentioned (1) and (2) will be imported from Japan.

Details of the sources of procurement of materials, equipment and supplies are as given in Table 5-1.

Table 5-1 Sources of Procurement of Materials, Equipment and Supplies

Name of Materials,				Remarks
Equipment, etc.	Bhutan	India	Japan	Kemarks
Equipment of Construction				
Eduthment of constituenton		,		
Cement	0			
Steel pipe with small		0		
aperture				
Shape steel Nail		0		
Corrugated Iron Plate		0	٠	
Galvanized Wire Mesh		ŏ		
Materials for House	0			
Wooden Cover	0			
Materials for Form	0			
Penstock			0	
Gate Screen	•		0	
Screen			U	
Generating Equipment		. *)		
Inlet Valve			0	
Turbine			0	·
Generator			0	·
Control Board			0	
Cable			0	
Materials for Transmission				
Distribution Lines	İ			
Tubular Steel Pole]		0	
Line Conductor			0	
Insulator and Fittings for Stringing			0	
Log for Kicking Block	0			
Pole Transformer			0	
Switching Gear			0	
Lighting Apparatus			O	B.S. standardize
Receptacle			0	- do -
(plug socket)	. :		.	

5-5 Implementation Plan

5-5-1 Implementation method

The construction works for this Project are to be done on the full responsibility of a contractor who is a Japanese juridical person, subject to the terms and conditions of the contract between the Government of Bhutan and the former.

Among the steps to follow are included tender, evaluation of tender proposals and selection of a contractor. The contract by and between the Department of Power and the Japanese contractor will come into force and effect upon verification by the Government of Japan thereof.

5-5-2 Outline of construction works

(1) Preparatory works

As datum points are to be placed in the neighbourhood of the respective structures, reference points surveyings from the said datum points will be performed. Upon placement of these reference points, the construction works will be commenced.

Such surveys by means of reference points should be performed as quickly as possible because of the tight schedule for completion of the required work. As for the possible transmission line routes, detailed ground surveys should be performed prior to the commencement of the construction works in order to determine pole setting locations. After the pole setting locations are identified, the construction works will commence. Therefore, it is essential that such ground surveys be carried out as soon as possible after the verification by the Government of Japan of a contract concluded by and between the Government of Bhutan and a Japanese contractor.

(2) Construction works of power plant

It is essential to commence the construction work in accordance with a more precise achedule for performing required work prepared in due consideration of the time needed for delivery of necessand materials and equipment to the sites which are scattered

throughout the country. In working out the construction schedule, meteorological conditions should be fully taken into account. Careful attention should be given to the traffic blockade especially during the rainy season (June through September) and any other factors which might affect the construction of the Project.

It is essential that civil works be undertaken during the dry season since river construction works must be done. Accordingly, construction works will be concentrated in a certain period of time, and complete preparations and arrangements should be done in advance.

5-6 Implementation Schedule

A series of work for the Project implementation is to be done according to the terms and conditions of Japan's Grant Aid System upon signing of E/N to be concluded between both Governments. Thereafter the Department of Power will conclude a consultancy services contract with a Japanese consulting firm in connection with the procurement of materials and equipment and the construction of the Project and relevant work.

The said consulting will undertake detailed design after the conclusion of the contract and will proceed with the preparation of tender documents in draft form. Tenders are to be invited with the approval by the Governments of Japan and Bhutan thereof. The consulting firm will attend the conclusion of a contract between the Government of Bhutan and a Japanese successful tenderer.

The period for selection of a Japanese contractor will be approximately seven months when counted from the conclusion of E/N. There will be about another six and a half months for manufacture of turbines and generators as well as procurement, packing and marine transport of such materials and equipment. Furthermore, around one month will be needed for inland transportation of those materials and equipment.

Accordingly, the period of time which will be required prior to the commencement of technical guidance and construction works is estimated to be nine months. The period of construction works is estimated at eight months at the maximum.

The implementation schedule is as shown in Fig. 5-1.

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 Signing of E/N Consultancy Services Contract Ground Survey and Detailed Design Preparation of Tender Documents Construction Contract Manufacture of Equipment and Marine Transportation Inland Transportation Construction Work

Fig. 5-1 Implementation Schedule

CHAPTER 6 MAINTENANCE AND MANAGEMENT PLAN

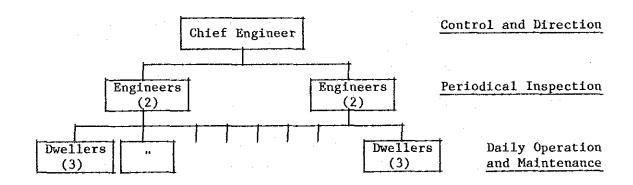
CHAPTER 6 MAINTENANCE AND MANAGEMENT PLAN

6-1 Maintenance and Management

6-1-1 Maintenance and management system

The Government of Bhutan (the Department of Power) intends to supply electricity from the respective power plants after the trial operation of the new facilities has been completed (upon completion of the Project). For this purpose, (1) local inhabitants in the supply areas of the new power plants will be engaged in the daily inspection and maintenance of the new power plants. (2) Technical personnel from the Department of Power will patrol each power plant periodically for technical inspection and repair thereof.

The daily operation and maintenance of each power plant is to be made by three (3) of these dwellers whereas the periodical visit thereto for inspection will be conducted by two (2) groups organized by the Department of Power and each group is composed of two (2) persons. A Chief Engineer to control the groups will be appointed and posted at the headquarters of the Department of Power. The organization is as follows.



Technical guidance in the operation and maintenance of the power plants will be rendered to personnel to be engaged in the operation and maintenance work under the framework of Japanese Grant Aid during the construction and trial operation of the new power plants.

Items of the said technical guidance would be as follows:

- (1) Daily operation and maintenance manner
- (2) Manner of response to and coping with emergencies including occasion of trouble(s) and/or failure(s) and manner of restore power plants and associated facilities to normal condition
- (3) Maintenance manner of equipment (including treatment of operation records, etc.)
- (4) Procedures for maintaining safety control

6-2 Operation and Maintenance Cost

The annual maintenance cost has been estimated on the following conditions because actual costs of maintenance of equipment of a similar nature in Bhutan were not available.

(1) Repair cost

50 percent extra to the cost adopted for the calculation criteria worked out by Japanese public utilities (for a power plant of 2,000 kW class) was employed for estimation of the repair cost of the power plants.

(2) Miscellaneous cost

This cost comprising the cost of office supplies, transportation and communication expenses and travelling expense will be higher than the cost stated in the above-mentioned criteria and is estimated at Nu 120 per kW. The reason is that technical personnel from the Department of Power are expected to patrol the power plants periodically for technical inspection and repair thereof and they will have considerably wider areas of their assignment, compared with the sphere of work done by operation and main-

tenance personnel, which provides a basis for calculation of the operation and maintenance costs of power plants in Japan.

(3) Personnel cost

Local people living at the sites will be engaged in the daily inspection of the power plants. Three (3) persons are to be in charge of one (1) power plant. Periodical inspection of the power plants will be made by technical personnel from the Department of Power. They will be composed of two (2) groups (each group of two (2) persons). In addition to these technical personnel, the cost of the administrative staff (Manager and his assistants) of the Department of Power has been calculated.

(4) Lubricant cost

The lubricant cost has been calculated in a percentage to the repair cost with reference to the actual records of a similar nature in Japan.

The results of the above-mentioned calculations are as shown in Table 6-1. The annual operation and maintenance cost amounts to Nu. 408,400. Salable energy will be Nu. 0.48/kWh. If the average energy sales rate is applied, it is expected that the annual energy sales revenue will amount to Nu. 553,000. Accordingly, the operation and maintenance cost of the new power plants will account for only 68% of the sales price of energy/kWh. The above-mentioned operation and maintenance cost can be easily paid without any difficulty.

The annual energy generation after completion of the ten (10) power plants is estimated to be as follows:

Annual Energy Generation (kWH)

- = Installed capacity of P.S. (kW) x 365 (days) x 24 (hours) x plant factor (1 consumption at P.S.)
- = 380 (kW) \times 365 \times 24 \times 0.25 \times (1 0.05)
- = 790,590
- = 790,000 (kWH)

Table 6-1 Calculation of Annual O/M Expenses

Annual Expenses	Amount (in Nu)	Remarks
Repair Cost	110,700	380 kW x 1.08 \(\Rightarrow\) 410 kW x 270 Nu = 110,700 Nu which is 3,618 times/kW in case of a plant with an installed capacity of 2,000 kW or less in Japan. (3,168 20 = 181 Nu) But, increased by 50%, considering that the power plant is of small scale. 181 Nu x 1.5 = 271.5 270 Nu/kW
Miscellaneous Cost	49,200	Yen 1,200/kW for costs of office supplies and stationary, communication and transportation and travelling expenses (60 Nu/kW) But if increased by 100% in view of the distance to the site, 120 Nu/kW 410 kW x 120 Nu/kW = 49,200 Nu will be obtained.
Personnel Cost	220,800	1) Daily inspection (inhabitants) 3 persons/site x 10 sites x 12 months = 360 man months @300 Nu x 120% = 360 Nu 360 man months x 360 = 129k600 Nu 2) Periodical inspection (engineers) by 2 groups composed of 2 technical persons each 2 persons x 2 x 12 months = 48 persons-months @1,000 Nu + 130% local salary = 1,300 Nu/month 48 persons-months x 1,300 Nu/month = 62,400 Nu 3) Other staff-members of Dept. of Power (1) Manager 1 man x 1,300 Nu/month x 12 months = 15,600 Nu (2) Assistants to Manager (typist, accountant, etc.) 2 persons x 550 Nu/month x 12 months = 13,200 Nu Sub-total: 18,800 Nu
Lubricant Cost	27,700	Estimated at 25% of the maintenance cost.
Total	408,400	

CHAPTER 7 PROJECT EVALUATION

CHAPTER 7 PROJECT EVALUATION

Bhutan is characterised by the fact that most of the inhabitants live in smaller towns and villages scattered in mountainous areas. Due to such geographical conditions of the country, power supply in most areas except for particular places such as Phuntsholing, Paro, Thimphu, etc. is separately made only within each area. In other words, electric power is supplied indepently in each area.

Bhutan is rich in hydraulic resources and is reported to have such potentials of around 6 million kW. However, rivers in Bhutan have steep slopes. Geological conditions in the country are so complicated that there exist not so many sites suitable for development of large scale hydro power plants with reservoirs. Nevertheless, the characteristics that river in Bhutan have steep gradient indicate that a considerable number of sites are suitable for development of power plants of a run-of-river-type.

It can be said that the construction of small scale hydro power plants for meeting power demands arising from each separate area is most realistic if the foregoing situation is taken into account.

It is believed that this Project will provide the direct and indirect benefits as stated hereunder.

- (1) It will be possible to electrify unelectrified areas. As a consequence of the electrification, improvement of a daily life, education, medical services and security among the inhabitants will be anticipated.
- (2) Development of this Project will greatly contribute to social and economic advancement in Bhutan.
- (3) Economic advancement in Bhutan will create more employment opportunities, thereby realizing enhancement of an income level of the inhabitants.

- (4) Introduction of a reasonable standard of living to the daily life of the inhabitants and vitalization of societies can be anticipated.
- (5) Forestry conservancy and flood control in rural towns and villages will be realized.
- (6) Efficient exchange of information will be made possible, which will contribute to the improvement of labour productivity.
- (7) Since it is anticipated that the operation hours of the existing diesel power plants in places such as Tongsa will be reduced, import of fuel will be decreased, which will result in saving an outflow of foreign exchanges.
- (8) Nurture of technical personnel of the Department of Power and improvement of technical standard can be anticipated through technical transfer by dint of the Japanese grant aid. Consequently, a foundation for "supply of professional man-power" will be reinforced, thereby giving a technical impetus to the implementation of the Project as a whole.
- (9) After the completion of the Project, the daily maintenance and inspection of the micro hydro power plants will be made by inhabitants dwelling in the Project Sites who will be the beneficiaries of the electrification whereas technical personnel from the Department of Power will patrol the above-mentioned power plants for periodical inspection thereof. Accordingly, it can be expected that the elaborate and attentive operation and maintenance of the completed facilities will be made possible, which will be of help to simplification of the organization of the Department of Power.
- (10) It will be possible to appropriate necessary expenses for the operation and maintenance of the power plants out of the energy sales revenues.

In due consideration of the afore-mentioned benefits and effects, this Project is justifiable to be promoted.

CHAPTER 8 CONCLUSIONS AND RECOMMENDATIONS

CHAPTER 8 CONCLUSIONS AND RECOMMENDATIONS

8-1 Conclusions

The Government of Bhutan has formulated the plan for development of 150 small scale hydro power plants all over the country in due consideration of the topographical characteristics of the country and the patterns of demands for electric power, requirements of transmission and distribution lines, etc. in the future.

This plan was worked out as an electrification scheme essential for the improvement and reinforcement of towns and villages scattered throughout Bhutan. However, the preparation and sorting of various data for putting the plan into practice are delayed due to a shortage of technical personnel whom the Department of Power has and on account of insufficient funds for the purpose.

The ten (10) proposed sites contained in the Project cover major towns and villages in the respective districts. Although these towns and villages have public institutions such as hospitals, schools, etc., they are in urgent need of electric power and electricity for medical treatment and lighting for the dormitories of schools, etc. as they are not or insufficiently supplied with electric power and electricity at present.

This Report has been prepared and compiled upon careful examination of the field surveys conducted and based on the outcome of a series of discussions made with the Government of Bhutan. The following conclusions could be enumerated.

(1) Construction of the micro hydro power plants will bring about electrification of villages and towns which have not yet been favoured with a civil minimum of "electricity". This will contribute to the improvement of a daily life, education, medical services, vitalization of economic activities, and the improvement of public security and the like.

- (2) It is considered that construction of the micro hydro power plants will present no technical difficulties judging from the results of the field survey.
- (3) The supply of electricity and electric power to unelectrified areas will materialize vitalization of industrial and economic activities, welfare of inhabitants, improvement of social life, etc.

Upon comprehensive consideration of the foregoing benefits and effects, it can be concluded that this Project is meaningful and greatly worthy to be implemented under Japanese Grant Aid.

8-2 Recommendations

8-2-1 Recommendations on the Project

The construction of the micro hydro power plants incorporated in this Project will lay a firm basis for the prosperity of Bhutan in the future. In order to maintain their functions for a long time, it is essential that the Government of Bhutan pay careful attention to the following points.

- (1) This Project will be the first one of the plan for development of the 150 small scale hydro power plants. It is recommended that the Government of Bhutan make arrangement for enabling its personnel concerned with the Project to participate in the construction work of the Project and acquire a practical knowledge of hydro power generation from technical personnel of the Japanese contractor and the Japanese consultant.
- (2) It is considered essential that the Government of Bhutan establish a reliable system of power supply upon formulation of a definite repair and maintenance plan and system through acquisition of techniques of the operation and maintenance of the micro hydro power plants from the Japanese technical persons.
- (3) It is strongly recommended that the Government of Bhutan ensure the acquisition of lands for the facilities, construction and reinforcement of access roads for the transport of materials and equipment and construction works, compensation for clearance (cut

and removal) of interfering and danger trees so that the construction works of this Project can be carried out quite smoothly.

8-2-2 Recommendations on construction of hydro power plants

(1) Setting-up of systematic organizations

The organization of the Department of Power is as described in 2-2-1. The generating facilities owned by them are scattered throughout the country. It is, therefore, impossible for the Department of Power to know the situation of operation of such power plants instantly in Thimphu.

Accordingly, it is essential that tele-communication systems be established so that communication can be maintained among the hydro power plants scattered throghout the country.

The next important thing is to set up an organization or system of nurturing the man-power as stated hereunder.

a) Collection and control of hydraulic data

Sorting of hydraulic data available at the gauging stations under the umbrella of the Department of Power are insufficient for the purpose because of a limited number of experienced personnel. The measuring tools and instruments they have are not always reliable.

Hydraulic data which are most important for hydro power plants are far from being perfect. Actual records of operation of hydro power plants, data on stream discharge at intakes and records of discharge are not available. Hence, it is believed essential that professional personnel in this field be nurtured and that measuring instruments be procured and arranged.

b) Preparation of topographical maps

Maps on a scale of 1/50,000 covering whole Bhutan are available, but are considerably old. These maps are quite different from what the topographical features of Bhutan are. No indication is made on trunk roads although the surveying staff of the Department of Power is capable of conducting simple surveying work. They do not always have sufficient capability nor experience of preparing such maps. The number of the said staff-members are quite limited. It is, therefore, hardly possible to prepare and compile topographical maps. It is believed necessary that professional members in this field be trained and nurtured.

c) Personnel to be engaged in operation and maintenance of power plants

Most of the existing power plants are operated and maintained under the control and guidance of Indian engineers. Judging from very poor plant factors of the respective power plants, it cannot be said that these power plants are in smooth and proper operation. Hence, it is believed essential that reasonable organizations be set up in order to cope with the operation and maintenance of each of the power plants independently in the respective supply areas.

(2) Technical problems

Most of the existing power plants were constructed and are being operated with the technical assistance of India. Each power plant shows a very low plant factor, and a number of troubles and/or failures take place.

Operative generating facilities are forced to be run under overload operation, which probably causes such troubles and/or failures. Large loss rates occurring in the distance between power plants and consumers indicate that the voltages of transmission lines are improper. As for civil structures, repair costs thereof are unexpectedly high because of immatured construction techniques.

It was felt that there are not a few fundamental points to which serious attention should be given not merely in respect of construction techniques but also in the aspects of various designs.

There will be, of course, the necessity of solving and improving these points of issue, and it is believed imperative to train technical personnel who are expected to undertake the construction of the small scale hydro power plants for purposes of not only the construction works but also the operation and maintenance of such power plants.

NNEX PERTINENT DATA AND INFORMATION

ANNEX PERTINENT DATA AND INFORMATION

ANNEX NUMBER	
1.	Key Personnel with whom the Survey Team Met
2.	Member List
3.	Itinerary
4.	Minutes of Discussions (Photo Copy)
5.	List of Recieved Data and Information
6.	General Situation of the Kingdom of Bhutan
7.	Results of Power Demand Forecast for Each Proposed Site
8.	Discharge Data
9.	Discharge Duration Curves
10.	General Layout for Each Proposed Site
11.	Calculations for Open Channels

Basic Design Drawings

12.

Key Personnel with whom the Survey Team Met

Full Name	Position or Title	Organization Name & Address
His Excellency Takumi Hozaki	Ambassador Extra- ordinary and Plenipotentiary to India	Embassy of Japan Plot No. 4 & 5, 50-G, Chanakyapuri, New Delhi, India
Mr. Toyoji Miyanaga	First Secretary, Embassy of Japan in India	- ditto -
Mr. Tokukiyo Hirai	Representative of JICA Office in India	- ditto -
Mr. Kyoji Nishioka	Columbo Plan Expert	Paro District, Bhutan
Mr. Tomoaki Tsugawa	Volunteer of the United Nations	Department of Industries and Mines, Royal Government of Bhutan, P.O. Box 141 Thimphu, Bhutan
Mr. Yoshinori Watanabe	Administrative Officer	Consulate-General of Japan, Calcatta, India
Mr. Sangay Dorji	1st Secretary	Royal Bhutanese Embassy
Mr. Daw Penjo	3rd Secretary	- ditto -
Mr. Kinga Singye	Attache	Economic Division, Ministry of Foreign Affairs
Mr. Hari K. Chhehi	Under Secretary	Foreign Ministry
Mr. Dasho Lam Penjor	Deputy Minister	Planning Commission, Autonomous & Semi- autonomous Bodies
Mr. Ugyen Tsheving	Acting Director	Planning Commission, Autonomous & Semi- autonomous Bodies
Mr. Dorji Norbu	Assist Programme Officer	Planning Commission, Autonomous & Semi- autonomous Bodies

Full Name	Position or Title	Organization Na & Address
Mr. Sonan Tshong		Planning Commission Autonomous & Semi- autonomous Bodies
Mr. Kunley Gyaltshen		Revenue Dept., Finance Ministry
Mr. Dasho C. Dorji	Secretary	Dept. of Industrie
		Ministry of Trade Industry & Power
Mr. A. K. Pradkan	Director	Department of Powe Ministry of Trade, Industry & Power
Mr. Jigne Karchung	Engineering Officer	- ditto -
Mr. Bhim Subba	Superintending Engineer	Planning Division, Department of Powe
Mr. Sonam Tshering	Section Officer	Office of The Dire Department of Powe
Mr. O. B. Chettri	Section Officer	- ditto -
Mr. J. N. Sharma	Section Officer	- ditto -
Mr. J. B. Basnet	Surveyor	- ditto -
Mr. Sherub Tenzin	Dasho Dzongda	Shemgang District
Mr. Tsewang Norbu	Block Head	Tshangkha, Tongsa District
Mr. Sthel	Asst. Head	Tangsibi, Tongsa District
Mr. Phub Dorji	Block Head	Tongsa, Tongsa District
Mr. Karha Wangchuk	Doctor	Tongsa Hospital, Tongsa District
Mr. Kota	Block Head	Tamjhing, Bumthang District (Jagar)
Mr. Tashi Dorjee	Block Head	Ura, Bumthang Dist

en e		
Full Name	Position or Title	Organization Name & Address
Mr. Tashi Phuntso	Head Master	Ura Primary School, Bumthang District
Mr. Frite Maurer	Master	Bumthang District (Swiss Colony)
Mr. Pema Dorje	Asst. Engineer	Tashigang Branch Office, D.P.,
		Tashigang District
Mr. Sangay Wangchuk	Block Head	Yadi, Mongar District
Mr. Phub Thinley	Section Officer	Rukubji Branch office., D.P., Rukubji, Wangdiphodrang District
Mr. Thrinlay Dorje	Block Head	Thrinalaygang, Punakha District

MEMBER LIST

2:1					· · · · · · · · · · · · · · · · · · ·	
Organization	Grant Aid Division of Economic Cooperation Bureau, Ministry of Foreign Affairs	Irrigation & Drainage Division of Construction Department, Agricultural Structure Improvement Bureau, Ministry of Agriculture, Forestry & Fisheries	First Basic Design Study Division of Grant Aid Planning & Survey Department, Japan Interna- tional Cooperation Agency (JICA)	EPDC International Limited (EPDCI)	EPDC International Limited (EPDCI)	EPDC International Limited (EPDCI)
Designation	General Direction (Leader)	Electric Power Planning	Planning and Superintendency	Electric Power Planning and Hydrology	Civil Engineering for Electric Power	Electrical and Mechanical Engineering
Name	Mr. Tetsuo Nishimura	Mr. Soichi Ohba	Mr. Junji Yokokura	Mr. Hideo Sato	Mr. Hiroomi Kimura	Mr. Itsuo Ichinose

ITINERARY

 									
				.:		: : :		. '	
Description	Leave Tokyo (Narita) International Airport.	Arrive in Delhi, courtesy calls at the Embassy of Japan and JICA Office in India, briefing the contents of an Inception Report.	Leave Delhi and arrive in Calcutta.	The aeroplane took off once but returned to Buksa Duar Airport because of the bad weather in Paro Airport and adjacent places. The Team members waited for a while at Buksa Duar but finally returned to Calcutta.	Leave Calcutta and arrive in Thimphu via Paro. Courtesy calls at the government agencies of Bhutan.	Discussions with the Department of Power the final itinerary for field surveys.	Collection of data including maps and briefing of the questionnaire.	Arrangement for survey instruments and detailed discussions of field surveys.	Leave Thimphu for survey of Rukubj Site and stay at Tongsa.
Day of Week	Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Sun.	Mon.
Date	April 7	∞	6	10	H	12	13	14	15
Ordinal Number of Days	*** 1	2	m	7	ሊነ	9	7	œ	σ,

		:		Tongsa)		Tongsa)		mthang)		Bumthang)		Mongar)
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		Group B	ite		(No.			s)	Site (No. 4) a	s)	Move from Bumthang to Mongar	
		Gro	Survey of Tangsibi Site		Tongsa Site		Tamjhing Site		ra Site (ımthang t	
	no	· · · · · · · · · · · · · · · · · · ·	rey of Ia		Survey of Ic		Survey of Ia		Survey of Ura Tamjhing Site		e from Bu	
	Description		Surv	a)	Sur	- C II	Surv	n)	Sur	n)	Move	g) u)
	Ă		and	(Stay at Tongsa)		(Stay at Thimphu)	of Power	(Stay at Thimphu)	, Deputy ta, ta	(Stay at Thímphu)		(Stay at Phuntsholing) ca (Stay at Thimphu)
			No. 102) and	(Stay		(Stay a	rtment o	(Stay a	call on Dasho Lam Penjor, Deputyons and preparation of data, on of the intake of Chetta	(Stay a	er Plant	y at Phu (Stay a
		Group A	<u> </u>		Site		the Depa		Dasho Lam Penjoreparation of deintake of Cheand water-ways		ydro Pow n	(Sta Yokokura
**************************************			f Tongsa S Site (No.				ns with		call on I ns and pr on of the er Plant	: :	to Chukha Hy construction	
			Survery of Tongsa Site Bumthang Site (No. 103)		Survery of Babja	1 .	Discussions with the Department questions		Courtesy call on Dasho Lam Penjor, Minister Discussions and preparation of data observation of the intake of Chetta Hydro Power Plant and water-ways		Visit to Chukha Hydro Power Plant under construction	Ohba and Sato Nishimura and
Day of	Week		Tue.		Wed.		Thur.	······································	Hri.		Sat.	
	Date		April 16		17		18		19		20	
nal	r vs	: <u></u>	<u> </u>									<u>, </u>
Original	Number of Days		10		11		12	e.	13		14	

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	Group B	di Site (No. 8)	(Stay at Tashigang)	Yadi Site (No. 8) (Stay at Mongar)	ngar to Bumthang (Stay at Bumthang)				
Description		Survey of Yadi		Survey of Ya	Move from Mongar				
Desc	Group A	Investigation of the stockyard at Phuntsholing and collection of information of entry into and departure from Bhutan for transport of materials and equipment	(Stay at Thimphu)	Discussion with the Department of Power the Minutes of Discussion (draft) at the offices of Planning Commission	Sato left Thimphu for site survey (Staying at Tongsa) Nishimura, Ohba and Yokokura remain at Thimphu (Stay at Thimphu)	Signing of the Minutes of Discussion	Nishimura, Ohba and Yokokura Survey of Bubja Site (No. 6) (Stay at Thimphu)	Sato (Stay at Shemgang)	
Day of Week		Sun.		Mon.		Tue.			
Date		April 21		22		23			
Original Number of Days		2		16		17			

Description	Group B	Move from Bumthang to Tongsa Collection and sorting of data	(Stay at Tongsa)	Survey of Rukubji Site (No. 3) (Stay at Wandiphodrang)		Survey of candidate site (1) of Punakha Site (No. 101) (Stay at Wandiphodrang)		Survey of candidate site (2) of Punakha Site (No. 101)	Survey of Punakha Site (No. 101)	(Stay at Thimphu)
Descr	Group A	Nishimura, Ohba and Yokokura Leave Paro and arrive in Delhi	Sato Survey of Kekhar Site (No. 104) (Stay at Shemgang)	Explain to the Embassy of Japan and JICA Office in India the results of the field study	Sato Suvey of Kekhar Site (No. 104) (Stay at Shemgang)	Nishimura, Ohba and Yokokura Leave Delhi and arrive in Tokyo (Narita) International Airport via Bangkok	Survey of Surey Site (No. 7) (Stay at Gaylegphug)	Survey of Surey Site (No. 7)	(Stay at Gaylegphug)	
Day of Week	-	Wed.		Thur.		т. т.		Sat.		
Date		April 24		25		56		27		
Original Number of Days		18		19		20		21		

Description	Group B	Collection of additional data and sorting of collected data and information	(Stay at Thimphu)	Collection of additional data and sorting of collected data and information	(Stay at Thimphu)
Desci	Group A	Move from Gaylegphug to Tongsa	(Scay at longsa)	Move to Thimphu from Tongsa via Wandiphodrang	(Stay at Thimphu)
Day of Week	· · · · · · · · · · · · · · · · · · ·	Sun		Mon.	
Date		April 28		29	
Original Number of Days		22		23	

Original Number	Date	Day of	Description	
of Days				
24	April 30	Tue.	Receive answers to the Questionnaire from the Department of Power and examine additional questions	
			(S)	(Stay at Thimphu)
25	May 1	Wed.	Discussion with Mr. Suda and three (3) other persons of the Department of details of the answers and the results of the field surveys	of Power
			S)	(Stay at Thimphu)
26	2	Thur.	Collection of data and preparations for departure from Bhutan.	
				(Stay at Paro)
27	m	Fri.	Leave Paro and arrive in Calcutta	
			(3¢	(Stay at Calcutta)
28	7	Sat.	Leave Calcutta and arrive in Bangkok	
			S)	(Stay at Bangkok)
90	L	<u></u>	Tours Bondier and commercial in Polema (Namita) Tatementianal Airmann	

MINUTES OF DISCUSSIONS

ON

ESTABLISHMENT PROJECT FOR

MICRO HYDRO POWER FACILITIES

IN.

THE KINGDOM OF BHUTAN

In response to the request made by the Government of the Kingdom of Bhutan for the Establishment Project for micro hydro power facilities in the Kingdom of Bhutan (hereinafter referred to as "the Project"), the Government of Japan has sent, through the Japan International Cooperation Agency (hereinafter referred to as "JICA") which is an official agency implementing the technical cooperation of the Government of Japan, the team headed by Mr. Tetsuo Nishimura, to conduct the survey for 29 days from April 7th to May 5th, 1985.

The team carried out a field survey, held a series of discussions and exchanged views with the authorities concerned of the Government of the King-dom of Bhutan.

Both parties have agreed to recommend to

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their respective governments and the authorities - concerned to examine the result of the survey attached herewith toward the realization of the Project.

23, April, 1985

Tetur nishimura

TETSUO NISHIMURA Head, Japanese Survey Team. A.K. PRADHAN,
Director,
Department of Power,
Ministry of Trade,
Industries and Power,
Royal Government of
Bhutan: THIMPHU

ATTACHMENT

- 1 : The objectives of the project is to establish micro hydro power facilities on the sites where the people around the area needs supply of electric power urgently for their living.
- 2: First priority for the supply of power is put to public facilities such as schools, hospitals, communications, veterinary centres etc.
- The scale of the micro-hydro power facilities should be what can be maintained by the community and standardization should be considered as much as engineering view allows for easier maintenance, operation and spare parts supply.
- 4: The Japanese Survey Team will convey the Government of Japan the desire of the Government of the Kingdom of Bhutan that the former takes necessary measures to cooperate in implementing the Project and bears the cost of the items requested by the latter shown in Annexure. I within the scope of Japanese economic co-operation programme in grant form.
- 5: The Government of the Kingdom of Bhutan will take necessary measures listed in Annexure.II under the condition that the grant aid assistance by the Government of Japan is extended to the Project.

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- The Bhutanese team accepted that the present JICA Basic Design Team-was fielded to study only 10 (Ten) sites originally proposed. However, they informed the team of the additional request for 140 (One hundred and forty) sites and requested them to convey this desire to their Government.
- 7 : Both parties confirmed that the Survey Team explained Japan's grant aid programme and the Bhutan side has understood it.

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ANNEXURE - I

1 : The following sites are requested by the Government of Bhutan to be established with micro-hydro facilities :-

In priority order -

1) Ura : Bumthang
2) Surey : Gaylegphug
3) Yadi : Mongar
4) Thimsung : Bumthang
5) Khekhar : Shemgang

6) Bubja : Tongsa

7) Rukubji : Wangdiphodrong

8) Tansibi : Tongsa
9) Nakhujung : Punakha
(Thari Bacha)

10) Tonsa : Tongsa

- 2 : The following items are requested by the Government of the Kingdom of Bhutan as grant aid assistance.
 - i) Micro hydro power equipment- ten sites
 - ii) Civil works for as many sites as possible

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Equipment (in priority order)

- 1 : Turbine, Generator
- 2 : Penstock
- 3 : Pipes for water way, gates
- 4 : Step-up transformer, Transmission line, Step-down transformer
- 5 : Distribution line to public facilities, Illumination apparatus inside the public facilities.
- 6 : Foundation for turbine and generator.

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ANNEXURE : II

Following arrangements are requested to be taken by the Government of Kingdom of Bhutan.

		-To be	To be
		covered	covered
17.	Thomas	by re-	by Grant
Мо	I.tems	cipient (Ald Side
		Side.	
1	To secure required land	. 0	
<u>5.</u>	To construct access to the const-		
	ruction site for transportation	0	
	of materials and equipment		
3	To construct the gate and fence		
-	in and around the site, if ne-	<u>'</u> .	
	cessarv	0	
4	To bear the following commissions		
;	to the Japanese foreign exchange		
•	bank for the banking services		
	based upon the B/A		
	i) Advising commission of A/P	o	
	ii) Payment commission	σ	<u>.</u>
5	To ensure unloading and customs		
-	clearance air port of disembarka-		1
	tion in recipient country	}	
	i) Marine (Air) transportation of	}	
	the products from Japan to the	ļ	
	recipient country		(0)
		Í	()
	ii)Tax exemption and custom cle-		ļ
	arance of the products at the		
	port of disembarkation	0	•
	iii)Internal transportation from	i	
	the port of disembarkation		(0)
-	to the project site		(0)
6	To accord Japanese nationals		
•	whose services may be required in	ļ	
	connection with the supply of the		
	products and the services under		
	the verified contract such fa-		
	cilities as may be necessary for		
	their entry into recipient	1	
	country and stay therein for	1	
7	the performance of their work	0	
1	To maintain and use properly and	,	
	effectively that the facilities	1	1
	constructed and equipment pur-	م ا	
8	Chased under the grant	0	
G	To bear all the expenses other than those to be borne by the]	
•	grant, necessary for construction		ł
	of the facilities as well as for		
	the transportation and the in-	0	· ·
	stallation of the equipment.		
-	LASSESSED AT OUR CONTINUELLY	<u> </u>	

List of Received Data and Information

Received Data & Information except items filled in the Questionnaire

Ref.	Title	Note
1.	General Information of Electric Power Supply in Bhutan	
(1)	Facts and Figures. Period ending March 1984	
(2)	Review of Power Development	
(3)	Power Map of Bhutan	
(4)	Schedule of Tariff	
(5)	Forecast of Power Requirement	
(6)	Daily Load Curve of Typical Day	
(7)	Monthly System Performance and Commercial Return for the System	
(8)	Monthly Performance of Hydel Power House	Hydel
(9)	Organization of Dapartment of Power	: Hydro Electric
(10)	Number of Employees of Department of Power	
(11)	Design Criteria adopted for Existing Hydro Power Station.	· · ·
2.	Outline of Proposed Sites	
(1)	Meteorological Data of Adjacent Areas	
(2)	Pre-investigation of Proposed 10 Sites	
(3)	Average Occurance of Snow Fall, Rain Fall and Thunder Storms during the Months	
(4)	Micro Hydro Proposed Sites List, 65 in 140 sites	
(5)	Pre-investigation Result of each 10 Proposed sites	
3.	Reference Data _i for Basic Design	
(1)	Specifications 1984 (Published by P.W.D)	
(2)	Schedule of Rates for PHUNTSHOLING, 1981	
	1	1

1 1	:	
(4)	Schedule of Rates for SAMDRUP JONKHAR, 1984	Urban, Rural
(5)	Scendele of Rates for SAMCHI, 1984	Urban, Rural
(6)	Schedule of Rates for SARBHANG, 1984	Rural
(7)	List of Names of P.W.D	
(8)	List of Construction Equipment owned by P.W.D	· ·
(9)	List of Contructar/Pirm for Civil Engineering and Transmission Lines	
4.	Reference Data for Implementation Plan	
(1)	Filled in the Questionnaire	
5.	Reference Data for Operation and Maintenance plan	
(1)	Filled in the Questionnaire	
6.	Reference Data for Evolution Project	
(1)	Filled in the Questionnaire	
7.	Socio-Economic Data of Information	
(1)	Structure of Government	
(2)	Statistical Hand Book of Bhutan	
8.	Other Required Data and Information	
(1)	Dzong District Boundary Map (on a scale of 1:250,000) in 1972	
(2)	Topographical Map (on a scale of 1:50,000)	Copy of 22sheets
(3)	List of Indian Standard	
(4)	Tender Specification No DPT-2/84 for 66kV Transmission Lines issued by 0.P.	. : : : : : : : : : : : : : : : : : : :
(5)	Tender Specification No DPT-3/84 for 66kV Transmission Lines issued by D.P.	
(6)	Mission Report for the Royal Goverment of Bhutan, Project BHU/81/019	
(7)	Maintenance Equipment Specification for Bhutan Project BHU/81/019	
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		LAYAN KINC		٠.			
(9)	Delhi Blectri News paper "P	c Supply l atriot, 9,	Jndertaki April,	ng, Public 1985"	Notice		
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ANNEX-6 GENERAL SITUATION OF THE KINGDOM OF BHUTAN

General Situations of the Kingdom of Bhutan

1. Geography & Climate

Bhutan is located in Himalaya being bordered by the Tibet region of China in the north and north-west and by India in south, the west and the last.

The land area is about 46,500 sq. km, with a population of about 1.2 million, most of which live in the intermediate zone having an altitude of 1,000 - 3,000 metres.

BHUTAN has a climate greatly diversified ranging from hot and humid sub-tropical conditions in the southern hill zone to the freezing coldness in the northern high mountain zone with perpetual snow and glaciers.

Generally speaking, the southwest monsoon lasts from June to September, bringing with it some 60 - 90% of annual precipitation, depending upon the region. The annual rainfall varies greatly in respective regions from 500 mm to 2,000 mm.

The climate is temperate throughout the year in the south and intermediate zones with an average daily temperature of 15°C in winter and 31°C in summer in the south and in the intermediate zone, for instance at Paro, with average temperatures of 5°C in January and 25°C in July. Above 4,000 metres in altitude, however, the climate becomes increasingly severe, with limited precipitation, short cool summers, and long cold winters.

2. History

Bhutan has long been in existence as a country with seclusionism in Himalayan mountains and it has been being organized as a state since the first king of the present monarchy came in to power in 1907.

The history in the preceding periods is not known much. Around the l6th century, chieftains called dzongs perhaps living in the fortresses emerged as a ruler of each valley. It is said that the first Kingdom was established by a penlop from Jongsa province and that Bhutan of those days was very much like Japan of the Turbulent Age.

In 1910, three years after the establishment of the Kingdom, Bhutan became a protectorate of Britain and assigned the sovereignty for foreign affairs to Britain and thenceforth Bhutan seldom appeared on the stage of the international society. In 1947 when India acquired independence from Britain, the diplomatic sight of Bhutan held by Britain until that time was assigned to India.

In August 1949, Bhutan signed a treaty of friendship with India and maintained a special relationship with India ever since, especially for diplomatic matters, having agreed to be guided by advice of the Indian Government. Consequently, Bhutan has not have individual diplomatic relationship with any other countries than India and all of its external relationship has been dealt with through India.

Since 1952, when H. M. late Jigme Dorji Wangchuck, the thrid king of Wangchuck Dynasty, came to the throne, liberation of surfs, establishment of National Assembly, promotion of education, reform of monastery system and other measures were executed to have started moderization of Bhutan. In 1964 Prime Minister Jigme Dorji, supporter of state sovereignty, was assassinated as the results of power struggles between the powerful local clans and the Court Revolution in November brought the supremacy to King Wangchuck. In 1972 following the death of the King, the then Crown Prince Jigme Singye Wangchuck assumed the Crown to have been the fourth King of the Duyasty.

3. Legislature, Administration, Judicature

Bhutan is a monarchy undergoing democratic reform under the young King.

National Assembly is the unicameral legislature comprising 100 representatives of the people and 10 representatives of the monastic establishment, both categories of which are elected for three year terms, and 40 governmental official representatives who hold their seats as long as they hold their positions in government.

The Assembly holds ordinary meetings; twice a year and a special meeting is convened as necessity arises.

The Assembly legislates laws and submits recommendation to the Government on the important matters. The Royal Advisory Council, which is always in session, advises the King on key issues of policy and monitors the implementation of National Assembly resolution. It comprises nine members, who must be approved by the Assembly - two appointed by the King, seven selected by the Assembly.

The system of ministries and a Cabinet created in 1968 to meet the administrative needs for the country's modernization. The cabinet consists of ministers, members of the Royal Advisory Council, and several other high-ranking Government officers.

Bhutan is divided into 18 districts. Each district is administered by a district officer (dzongdag), who is appointed by the King and reports to the Ministry of Home Affairs. Districts are subdivided into blocks. The head of each block is chosen by the villagers and administer the block.

The central and local administrative structure is shown in Fig. 1 and Fig. 2. The organization of the Department of Power is shown in Fig. 3.

In 1968, a separate judiciary was established independently from legislature and administration. At present it comprises the Court of Appeal headed by the King, the High Court consisting of six judges and district courts for each district.

4. Economy

The dominant sectors of economy are Agriculture, Animal Husbandry and Forestry, in which approx. 90% of the population is engages, accounting for about 63% of GDB. (Ref. Table 1-1)

Foodgrains production is inadequate to meet needs and additional amount are imported from India. Maize, grown mainly in the east, is the predominant foodgrain, accounting for almost half of total production.

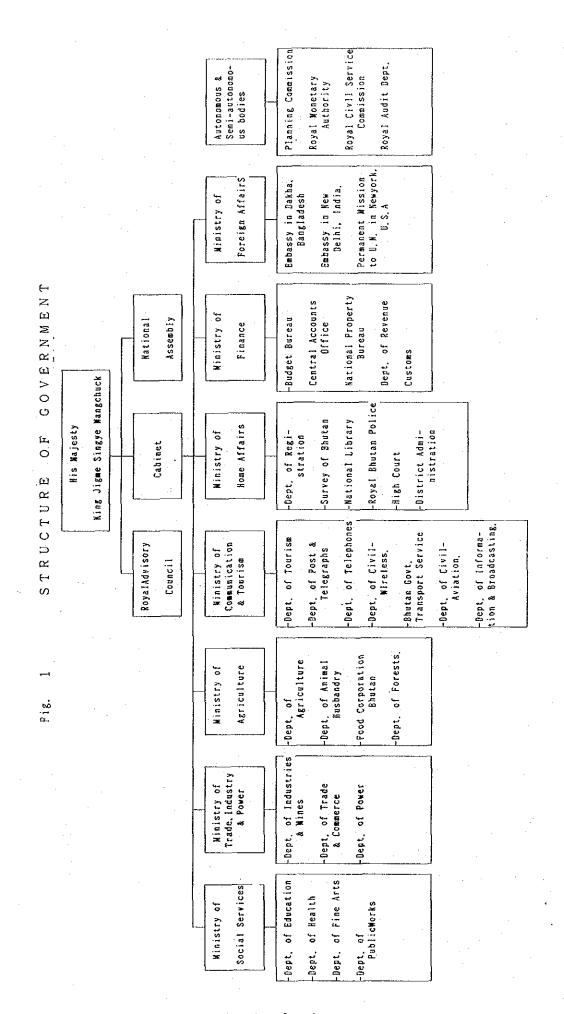
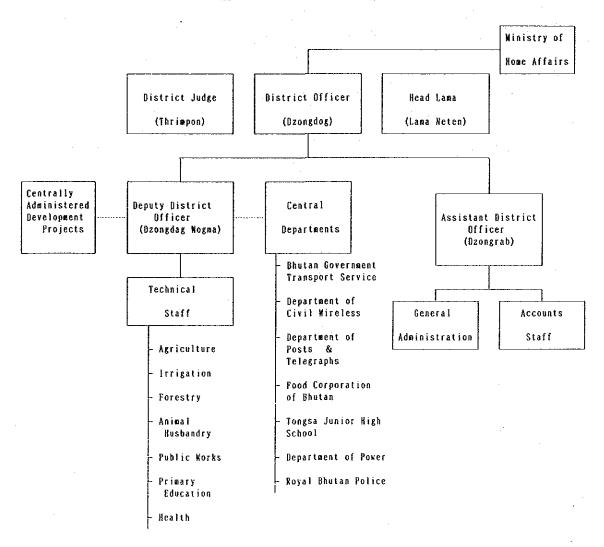
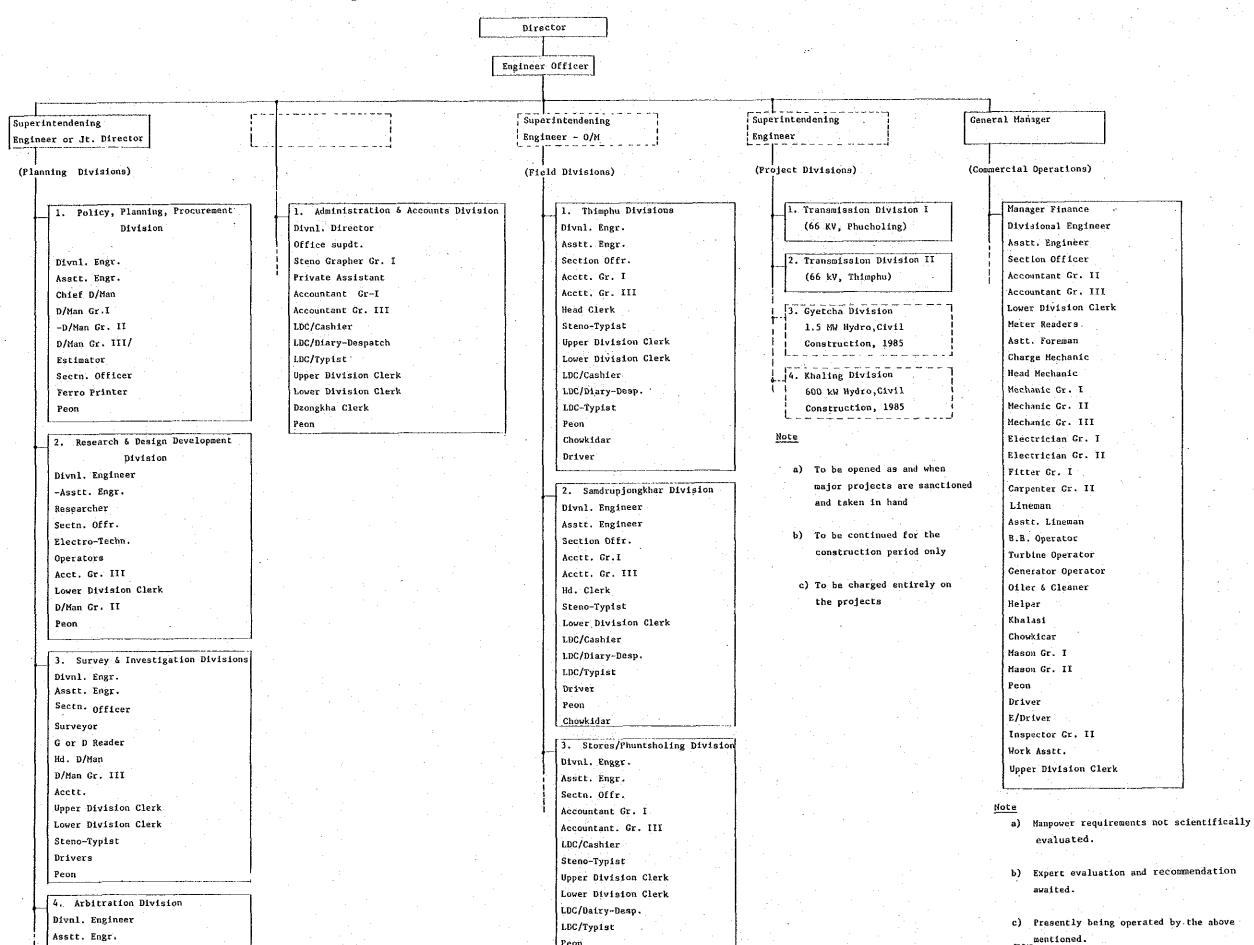


Fig. 2 ORGANIZATIONAL STRUCTURE OF A TYPICAL DISTRICT (DZONGKHAG)



Section Offr. Steno-Typist

Typist Peon



Paddy, which accounts for about one-third of production, is the main crop in the west. Wheat and other foodgrains are grown at higher altitudes. Other important crops include chillies, pulses, potatoes, etc. In recent years, apples, oranges, and cardamoms have emerged as cash crops in the south and west.

Forestry is another branch of the primary sector of the economy. High land forests are endowed with valuable resources of pine, spruce and fir, while in intermediate altitudes oak is predominal and in lower altitudes broad leafed tropical hardwoods are dominant. Almost two-thirds of the land is covered by forests. Forestry contributed about 16% of GDP in 1980/81, in addition, about a half of the industrial units are based on wood resources which is an important contribution to the national economy. Modern forest management technics are being adopted for preservation of the forest resources and reforestation. Wood process factories in the private sector are sawmills, a matchsticks factory, a pencile slat factory, a tea chest batten factory and so on. In addition, the Government has recently constructed with UNDP assistance a veneer and sawmill complex to produce sawn wood and commercial and high value decorative veneers for export.

Industry accounts for only about 6% of GDP. Relatively large scale factories in Bhutan are a cement factory built by India's grant aid fund, a distillery, a fruits processing factory, etc. cement exceeding domestic needs is being exported to India and other countries.

Table 1-1 Gross Domestic Product (at Market Prices), 1980/81

Sector ;	Nu million	Percentage (%)
Agriculture and Related Sectors	645.2	63.2
Agriculture	409.4	40.1
Animal Husbandry	76.5	7.5
Forestry	159.3	15.6
Industry	63.5	6.3
Manufacturing and Processing	33.3	3.3
Mining	8.6	0.8
Power	2.7	0.3
Construction	18.9	1.9
Services	311.8	30.5
Transportation and Communication	33.4	3.3
Tourism	11.0	1.1
Financial Institutions	15.4	1.5
Trade	28.6	2.8
Social Services	34.8	3.4
Public Administration	106.8	10.4
Rental and Other Services	82.0	8.0
Total GDP	1,020.5	100.0

Source: ASIAN DEVELOPMENT BANK

RESTRICTED REPORT No. BHU - EC. 1

A recent exploration of mineral resources carried out with the aid of the Geological Survey of India revealed the existence of such resources exploitable as dolomite, limestone, gypsum, marble, lead, zinc, copper etc., among them dolomite and limestone being presently mined by the Government.

Tourism is Bhutan's principal hard currency earner. In 1980, 1,406 tourists visited the country and the receipts amounted to 1.29 million U.S. Dollars. Since 1983, trekking has been open to overseas visitors, and considerable increase in the number of tourists is expected, coupled with hotel accommodations for foreigners at 5 locations with 200 beds.

In order to achieve a leap in tourism, it is necessary for transportation means to be improved.

Chukha Hydro-Power Station with a maximum output of 336 MW is being constructed with assistance by India, which will harness the waters of the Wang Chu River between Phuntsholing and Thimphu. Upon completion of the project, the bulk of power generated will be exported to India, surplus beyond the demands in the western district, where the development of manufacturing industries is expected to accelerated thanks to the project.

The dominant and largest trading partner of Bhutan is India. The trade with India, however, tends to decrease recently, while the trades with F.R. Germany, Japan and other developed countries are increasing.

Japan's trade with Bhutan comprises mainly export of motor vehicles, electric appliances and other manufactured goods, and is rapidly increasing as shown below:

Japan's Trade with Bhutan

			(Unit:	'000 Nu)
Year	Export	Import	Balance	
1981	3,293	85	3,208	
1982	10,991		10,991	
1983	18,284	309	17,975	

ANNEX-7 RESULTS OF POWER DEMAND FORECAST FOR EACH PROPOSED SITE

Table 4.2-4 Demand Forecast of Typical Village at Rukubji Site (No. 3)

					
		Kind of Load	Unit	No.	Installed
No.	Consumer	(Power Facilite)	Capacity	of	Capacity
		(rower ractifie)	(W,VA)	Unit	(W,VA)
1	Power House	Lamp	60	2	120
2	(Village Office)	Lamp	60	10	600
٤	(11110ge Ollico)	Public Address	100	1	100
			1		100
		System	•		
3	(7)	Lamm	60	5	300
3	(Dispensary)	Lamp			
	4.	Room Heater	5,000	2	10,000
:		Water Heater	3,600	1	3,600
	• " •	Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
			}	ł	}
4	(Vet. Dispensary)	Lamp	60	5	300
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
5	(Junior High School)	Lamp	60	35	2,100
٠, ر	(named migh pencol)	Fluorescent Lamp	40	40	1,600
	•	1	100	1	1,000
		Public Address	100		100
		System	1,0		1,,
		Video Disk &	140	1	140
		Television			
_		<u> </u>			000
6	(Food Corporation of	Lamp	60	5	300
	Bhutan)		i .		
7	(Branch Post Office)	Lamp	60	5	300
8	Street Lighting	Lamp	60	5	300
	5 0	ļ - ⁻			
9	Private House				
,	rirvace nouse				
(1)	Including Neighboring	Lamp	60	65x5	19,500
(1)		Radio	10	65	650
	Villages	Nauto	10	رن	030
403	D 1 11 22 11 1	T	60	45x5	12 500
(2)	Excluding Neighboring	Lamp	60		13,500
	Villages	Radio	10	45	450
	·				
10	Rice Milling Plant	Motor	3,700	1	3,700
	-				
11	(Wireless Station)	Lamp	60	5	300
	•	Power Source	1,000	1	1,000
		Equipment			
		-1			
	et it a	N	l	l	1

12	Total)	And the second s		:
(1)	Excluding Private House	Lamp]	1	4,620
		Fluorescent Lamp			1,680
		Heater]		17,200
		Power		<u> </u>	1,740
		Total			25,240
					and the second
(2)	Including Private House	Lamp]		18,120
:		Fluorescent Lamp			1,680
		Heater			17,200
		Power			5,890
		Total			42,890
(3)	Including Private House	Lamp	.		24,120
	of other Villages	Fluorescent Lamp	l		1,680
		Heater	1		17,200
		Power			6,090
		Total			49,090

Calculation of Maximum Demand Forecast

Case 1 Excluding Private House

$$P \ge \left(\frac{4,620}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0\times1.0} + \frac{1,740}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 3,080 + 14,939 = 18,019 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:,

$$Pp = P \times K = 18.0 \times 1.2 = 22 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

Case 2 Including Private House

$$P \ge \left(\frac{18,120}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0\times1.0} + \frac{5,890}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 9,268 + 19,802 = 29,070 \text{ (VA)}$$

$$Pp = P \times K = 29.1 \times 1.2 = 35 \text{ (kVA)}$$

Case 3 Including Private House of Other Villages

$$P \ge \left(\frac{24,120}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0\times1.0} + \frac{6,090}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 12,018 + 20,037 = 32,055 \text{ (VA)}$$

$$Pp = P \times K = 32.1 \times 1.2 = 39 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Tangsibi Site (No. 5)

No.	Consumer	Kind of Load	Unit Capacity	No. of	Installed Capacity
	VO 120 MIC 2	(Power Facilite)	(W,VA)	Unit	(W,VA)
1	Power House	Lamp	60	2	120
2	Village Office with	Lamp	60	10	600
	Hall	Public Address System	100	ì	100
3	(Sub-dispensary)	Lamp	60	. 5	300
		Room Heater	5,000	2	10,000
		Water Heater	3,600	1	3,600
		Refrigerator	200	1 2	200 40
		Germicidal Lamp	20	. 2	40
4	(Vet. Dispensary)	Lamp	60	5	300
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
5	(Primary School)	Lamp	60	35	2,100
		Fluorescent Lamp	40	40	1,600
		Public Address System	100	1	100
6	(Agriculture Office)	Lamp	60	5	300
7	(Branch Post Office)	Lamp	60	5	300
8	Street Lighting	Lamp	60.	5	300
9	Private House				
(1)	Including Neighboring	Lamp	60	131x5	•
	Villages	Radio	10	131	1,310
(2)	Excluding Neighboring	Lamp	60	71x5	21,300
	Villages	Radio	10	71	700
10	Rice Milling Plant	Motor	3,700	- 1	3,700
11	Sawmill	Motor	5,500	1	5,500

12	Total				e de la companya de l
(1)	Excluding Private House	Lamp	•		4,320
		Fluorescent Lamp			1,680
		Heater			17,200
		Power			600
		Total			23,800
				-45V	1982 July 1
(2)	Including Private House	Lamp			25,620
		Fluorescent Lamp			1,680
		Heater	į	1.1	17,200
	·	Power			10,500
		Total		: .,	55,000
(3)	Including Private House	Lamp			43,620
	of other Villages	Fluorescent Lamp			1,680
		Heater			17,200
		Power			11,110
	·	Total			73,610
	-				

Calculation of Maximum Demand Forecast

Case 1 Excluding Private House

$$P \ge \left(\frac{4,320}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0\times1.0} + \frac{600}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 2,943 + 13,603 = 16,546 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$Pp = P \times K = 16.5 \times 1.2 = 20 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

Case 2 Including Private House

$$P \ge \left(\frac{25,620}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0 \times 1.0} + \frac{10,500}{0.8 \times 0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 12,705 + 25,205 = 37,910 \text{ (VA)}$$

$$Pp = P \times K = 37.9 \times 1.2 = 46 \text{ (kVA)}$$

Case 3 Including Private House of Other Villages

$$P \geq \left(\frac{43,620}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0\times1.0} + \frac{11,110}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 20,955 + 25,920 = 46,875 \text{ (VA)}$$

$$Pp = P \times K = 46.9 \times 1.2 = 56 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Bubja Site (No. 6)

			Unit	No.	Installed
No.	Consumer	Kind of Load	Capacity	of	Capacity
NO.	Ookodiici	(Power Facilite)	(W,VA)	Unit	(W,VA)
		•	(0	2	120
1	Power House	Lamp	60	2	120
2 ·	(Village Office with	Lamp	60	10	600
	Hall)	Public Address	100	1	100
		System			
- 3	Basic Health Unit	Lamp	60	5	300
-		Room Heater	5,000	1	5,000
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
4	Vet. Dispensary	Lamp	60	5	300
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	. 40
5	Primary School	Lamp	60	35	2,100
Ĭ		Fluorescent Lamp	40	40	1,600
		Public Address	100	1	100
		System			
6	Agriculture Center	Lamp	60	5	300
7	(Branch Post Office)	Lamp	60	5	300
8	Street Lighting	Lamp	60.	5	300
9	Private House	Lamp	60	48x5	14,400
		Radio	10	48	480
10	(Rice Milling Plant)	Motor	3,700	1	3,700
11	Telephone Exchange	Lamp	60	5	300
		Power Source	1,000	1	1,000
	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l La companya de la companya de	Equipment			
12	(Sawmill)	Motor	5,500	1	5,500
		:			

Cangara	13	Total		. 1,7.		
Heater 12,200 1,600 Total 20,100	(1)	Excluding Private House	1 .*			
Power 1,600						
Total 20,100						
Fluorescent Lamp			The second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage was a second liverage was a second liverage with the second liverage was a second liverage with the second liverage was a second liverage w			
Fluorescent Lamp						10.000
Heater 12,200	(2).	Including Private House			. a r	
(3) Including Private House of other Villages Total Lamp				; ,		
(3) Including Private House of other Villages			1			11,280
of other Villages Fluorescent Lamp			Total			44,180
of other Villages Fluorescent Lamp	(3)	Theluding Private House	Lamp	_	_	
Heater	(3)			_ · ·		_
			1 - (<u> </u>	:	
Total	4.		Power			-
			Total		_	-

Calculation of Maximum Demand Forecast

Case 1 Excluding Private House

$$P \ge \left(\frac{4,620}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0\times1.0} + \frac{1,600}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 3,080 + 11,025 = 14,105 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$Pp = P \times K = 14.1 \times 1.2 = 17 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

Case 2 Including Private House

$$P \ge \left(\frac{19,020}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0\times1.0} + \frac{11,280}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 9,680 + 22,369 = 32,049 \text{ (VA)}$$

$$Pp = P \times K = 32.0 \times 1.2 = 38 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Surey Site (No. 7)

		<u> </u>	L		<u> </u>
		Kind of Load	Unit	No.	Installed
No.	Consumer	(Power Facilite)	Capacity	of	Capacity
		(Lower Lagitice)	(W,VA)	Unit	(W,VA)
1	Power House	Lamp	60	2	120
2	(Village Office with	Lamp	60	10	600
	Ha11)	Public Address	100	1.	100
-]		System			
3	Dispensary	Lamp	60	5	300
Ŭ.		Room Heater	5,000	1	5,000
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
4	Vet. Dispensary	Lamp	60	5	300
•	210ponoary	Water Heater	3,600	1	3,600
:		Refrigerator	200	î	200
į		Germicidal Lamp	20	2	40
		ocimicidai namp	20	-	. 40
5	Primary School	Lamp	60	35	2,100
,	TITEMATY SCHOOL	Fluorescent Lamp	40	40	1,600
		Public Address	100	1	100
		System	100	_	100
		aystem			
6	(Annataulauma Butantion	T a	60	5	300
О	(Agriculture Extention Office)	Lamp	1 00	,	300
	Office)	,			
٠, ١		T	60	5	300
7	Branch Post Office	Lamp	60	٦	300
ا م	Charles Tilebeiler	Ŧ	60	5	300
8	Street Lighting	Lamp	60	ر	300
_	D. 4 . 71	Y	60	240x5	72,000
9	Private House	Lamp	L .		
		Radio	10	240	2,400
10	(D. WILL D. A)		2.700	,	2 700
10	(Rice Milling Plant)	Motor	3,700	· 1	3,700
11	(Sawmill)		F 500	1	E 500
11 1	(Sormill)	Motor	5,500		5,500

12	Total		t e		
(1)	Excluding Private House	Lamp			4,320
. ` ~ (Fluorescent Lamp			1,680
		Heater		4.)	12,200
		Power) ·	600
		Total			18,800
(2)	Including Private House	Lamp			76,320
		Fluorescent Lamp		:	1,680
		Heater			12,200
		Power			12,200
		Total		1	102,400
		:			a talent
(3)	Including Private House	Lamp	-	ļ -	-
	of other Villages	Fluorescent Lamp	_	-	-
100		Heater	_	_	-
		Power	_	-	
		Total		-	-
			L	<u> </u>	

Case 1 Excluding Private House

$$P \ge \left(\frac{4,320}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0\times1.0} + \frac{600}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 2,943 + 9,853 = 12,796 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$Pp = P \times K = 12.8 \times 1.2 = 15 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

$$P \ge \left(\frac{76,320}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0\times1.0} + \frac{12,200}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 35,943 + 23,447 = 59,390 \text{ (VA)}$$

$$Pp = P \times K = 59.4 \times 1.2 = 71 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Yadi Site (No. 8)

No.	Consumer	Kind of Load (Power Facilite)	Unit Capacity (W,VA)	No. of Unit	Installed Capacity (W,VA)
1	Power House	Lamp	60	2	120
2	Village Office (1985 -)	Lamp Public Address System	60 100	5 1	300 100
3	Dispensary	Lamp	60	5	300
		Room Heater	5,000	2	10,000
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
4	Vet. Hospital	Lamp	60	9	540
		Water Heater	3,600	Ţ	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
5	Primary School	Lamp	60	70	4,200
_		Fluorescent Lamp	40	80	3,200
. •	;	Public Address	100	1	100
		System			
6	Food Corporation of Bhutan (1985 -)	Lamp	60	5	300
7	Branch Post Office	Lamp	60	3	180
8	Street Lighting	Lamp	60	5	300
9	Private House				
(1)	Including Neighboring	Lamp	60	115x5	34,500
\-/	Villages	Radio	10	115	1,150
(2)	Excluding Neighboring	Lamp	60	540x5	
	Villages	Radio	10	540	5,400
10	Rice Milling Plant	Motor	3,700	1 (3)	3,700 (11,100)
11	Wireless Station (1985 -)	Lamp Power Source Equipment	60 1,000	5 1	300 1,000
12	Sawmill	Motor	5,500	0 (1)	0 (5,500)

13	Total				
(1)	Excluding Private House	Lamp Fluorescent Lamp			6,540 3,280
:		Heater Power Total			17,200 1,600 28,620
(2)	Including Private House	Lamp Fluorescent Lamp			41,040 3,280
		Heater Power		·	17,200 6,450
(0)		Total			67,970
(3)	Including Private House of other Villages	Lamp Fluorescent Lamp Heater		<u> </u>	168,540 3,280 17,200
		Power Total	-	-	23,600 212,620
					,

Case l Excluding Private House

$$P \ge \left(\frac{6,540}{1.0} + \frac{3,280}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0\times1.0} + \frac{1,600}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 4,877 + 14,775 = 19,652 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$Pp = P \times K = 19.7 \times 1.2 = 24 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

Case 2 Including Private House

$$P > \frac{(41,040 + 3,280)}{1.0} \times 0.5 \times \frac{1.1}{1.2} + \frac{17,200}{1.0 \times 1.0} + \frac{6,450}{0.8 \times 0.8} \times 0.75 \times \frac{1.1}{1.1}$$

$$= 20,689 + 20,459 = 41,148 \text{ (VA)}$$

$$Pp = P \times K = 41.1 \times 1.2 = 49 \text{ (kVA)}$$

Case 3 Including Private House of Other Villages

$$P > \frac{(168,540)}{1.0} + \frac{3,280}{0.8} \times 0.5 \times \frac{1.1}{1.2} + \frac{(17,200)}{1.0 \times 1.0} + \frac{23,600}{0.8 \times 0.8} \times 0.75 \times \frac{1.1}{1.1}$$

$$= 79,127 + 40,556 = 119,683 \text{ (VA)}$$

$$Pp = P \times K = 120.0 \times 1.2 = 144 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Punakha Site (No. 101)

				igada T	
		Kind of Load	Unit	No.	Installed
No.	Consumer	(Power Facilite)	Capacity	of	Capacity
		(rower racrifice)	(W,VA)	Unit	(W,VA)
1	Power House	Lamp	60	2	120
				1. 1. 1. 1. 1.	
2	Village Office with	Lamp	60	10	600
	Hall	Public Address	100	1	100
		System			
3	Dispensary	Fluorescent Lamp	40	22	880
٠ ١	Dispensity	Room Heater	5,000	2	10,000
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
1			,		
4	Vet. Dispensary	Lamp	60	9	540
		Water Heater	3,600	1	3,600
1		Refrigerator	200	1	200
j		Germicidal Lamp	20	2	40
j	41 July 1997				
5	Primary School	Lamp	60	35	2,100
_	,	Fluorescent Lamp	40	40	1,600
		Public Address	- 100	1	100
		System			
6	Food Corporation of Bhutan	Lamp	60	5	300
7	Agriculture Office	Lamp	60	5	300
8	Branch Post Office	Lamp	60	5	300
9	Street Lighting	Lamp	.60	5	300
10	Private House	<u>.</u>			
(1)	Including Neighboring Villages	Lamp Radio	60 10	32x5 32	9,600 320
(2)	Excluding Neighboring Villages	Lamp Radio	60 10	54x5 54	16,200 540
11	Rice Milling Plant	Motor	3,700	4	14,800

12	Total	3 - 3 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5			
(1)	Excluding Private House	Lamp Fluorescent Lamp Heater Power			4,560 2,560 17,200 600
(2)	Including Private House	Total Lamp Fluorescent Lamp Heater Power Total			24,920 14,160 2,560 17,200 15,720 49,640
(3)	Including Private House of other Villages	Lamp Fluorescent Lamp Heater Power Total	- - - -	-	20,760 2,560 17,200 15,940 56,460

Case 1 Excluding Private House

$$P > \frac{(4,560)}{1.0} + \frac{2,560}{0.8} \times 0.5 \times \frac{1.1}{1.2} + (\frac{17,200}{1.0 \times 1.0} + \frac{600}{0.8 \times 0.8}) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 3,557 + 13,603 = 17,160 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$Pp = P \times K = 17.2 \times 1.2 = 21 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

$$P > \frac{(14,160)}{1.0} + \frac{2,560}{0.8} \times 0.5 \times \frac{1.1}{1.2} + \frac{(17,200)}{1.0 \times 1.0} + \frac{15,720}{0.8 \times 0.8} \times 0.75 \times \frac{1.1}{1.1}$$

$$= 7,957 + 31,322 = 39,279 \text{ (VA)}$$

$$Pp = P \times K = 39.3 \times 1.2 = 47 \text{ (kVA)}$$

Case 3 Including Private House of Other Villages

$$P \ge \left(\frac{20,760}{1.0} + \frac{2,560}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{17,200}{1.0\times1.0} + \frac{15,940}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 10,982 + 31,580 = 42,562 \text{ (VA)}$$

$$Pp = P \times K = 42.6 \times 1.2 = 51 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Tongsa Site (No. 102)

-			Unit	No.	Installed
No.	Consumer	Kind of Load (Power Facilite)	Capacity (W,VA)	of Unit	Capacity (W,VA)
1	Power House	Lamp	60	2	120
2	Village Office	Lamp	60	20	1,200
•	(In Zong)	Public Address System	100	1	100
		Fluorescent Lamp	40	30	1,200
3	Hospital	Lamp	60	30	1,800
		Fluorescent Lamp	40	60	2,400
		Room Heater	5,000	4	20,000
		Water Heater	3,600	1	3,600
		Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
		Vacuum Pump	750	1	750
		X-ray	20,000	1	20,000
4	Vet. Hospital	Lamp	60	30	1,800
	-	Water Heater	3,600	1	3,600
	·	Refrigerator	200	1	200
		Germicidal Lamp	20	2	40
5	Junior High School	Lamp	60	292	17,520
	3	Fluorescent Lamp	40	124	4,960
		Public Address System	100	1	100
		Video Disk & Television	140	1	140
6	Food Corporation of Bhutan (Agriculture	Lamp	60	5	300
	Dept.)			·	
7	Bank of Bhutam, Branch Office	Lamp	60	5	300
8	Post Office	Lamp	60	5	300
9	Street Lighting	Lamp	60	10	600
			-		
10	Private House	Lamp Radio	60 10	100x5 100	30,000 1,000
11	Rice Milling Plant	Motor	3,700	1	3,700
12	Sawmi11	Motor	5,500	1	5,500

	<u> </u>	_		 	
13	Telephone Exchange Station	Lamp Power Source Equipment	60 1,000	5 1	300 1,000
14	Food Corporation of Bhutan (Agriculture Dept.)	Lamp	60	5	300
15	Wireless Station	Lamp Power Supply Equipment	60 1,000	5 1	300 1,000
16	Public Work Office Dept. Office	Lamp	60	8	480
17	Tourist Logde	Lamp Fluorescent Lamp	60 40	38 30	2,280 1,200
18	Forest Office	Lamp	60	22	1,320
19	Department of Power Branch Office	Lamp	60	19	1,140
20	Total				
(1)	Excluding Private House	Lamp Fluorescent Lamp Heater Power Total			30,060 9,840 27,200 23,490 90,590
(2)	Including Private House	Lamp Fluorescent Lamp Heater Power			60,060 9,840 27,200 33,690
		Total			130,790

Case l Excluding Private House

$$P \ge \left(\frac{30,060}{1.0} + \frac{9,840}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{27,200}{1.0\times1.0} + \frac{23,490}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 19,415 + 47,927 = 67,342 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$Pp = P \times K = 67.3 \times 1.2 = 81 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

$$P \ge \left(\frac{60,060}{1.0} + \frac{9,840}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{27,200}{1.0\times1.0} + \frac{33,690}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 33,165 + 59,880 = 93,045 \text{ (VA)}$$

$$Pp = P \times K = 93.0 \times 1.2 = 112 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Tamjhing Site (No. 103)

				i i i i i	
No.	Consumer	Kind of Load (Power Facilite)	Unit Capacity (W,VA)	No. of Unit	Installed Capacity (W,VA)
1	Power House	Lamp	60	2	120
2	(Village Office with Hall)	Lamp Public Address System	60 100	10 1	600 100
3	(Dispensary)	Lamp Room Heater Water Heater Refrigerator Germicidal Lamp	5,000 3,600 200 20	5 1 1 1 2	300 5,000 3,600 200 40
4	(Vet. Dispensary)	Lamp Water Heater Refrigerator Germicidal Lamp	3,600 200 20	5 1 1 2	300 3,600 200 40
5	(Primary School)	Lamp Fluorescent Lamp Public Address System	60 22 100	35 40 1	2,100 880 100
6	(Agriculture Section Office)	Lamp	60	5	300
7	(Branch Post Office)	Lamp	60	5	300
8	Street Lighting	Lamp	60	5	300
9	Private House				
(1)	Including Neighboring Villages	Lamp Radio	60 10	35x5 35	10,500 350
(2)	Excluding Neighboring Villages	Lamp Radio	60 10	70x5 70	21,000 700
10	(Sawmill)	Motor	5,500	1	5,500

11	Total				
(1)	Excluding Private House	Lamp			4,320
100		Fluorescent Lamp			960
		Heater	5 (4), 44		12,200
		Power			600
		Total			18,080
					13.52.15
(2)	Including Private House	Lamp			14,820
		Fluorescent Lamp			960
		Heater			12,200
		Power			6,450
		Total			34,430
(3)	Including Private House	Lamp			25,320
	of other Villages	Fluorescent Lamp			960
	•	Heater	i		12,200
	-	Power			6,800
		Total		M	45,280

Case 1 Excluding Private House

$$P \ge \left(\frac{4,320}{1.0} + \frac{960}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0\times1.0} + \frac{600}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 2,530 + 9,853 = 12,383 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$P_P = P \times K = 12.4 \times 1.2 = 15 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

Case 2 Including Private House

$$P \ge \frac{(\frac{14,820}{1.0} + \frac{960}{0.8}) \times 0.5 \times \frac{1.1}{1.2} + \frac{(\frac{12,200}{1.0 \times 1.0} + \frac{6,450}{0.8 \times 0.8}) \times 0.75 \times \frac{1.1}{1.1}}{= 7,343 + 16,709 = 24,052 \text{ (VA)}}$$

$$Pp = P \times K = 24.1 \times 1.2 = 29 \text{ (kVA)}$$

Case 3 Including Private House of Other Villages

$$P \ge \left(\frac{25,320}{1.0} + \frac{960}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0 \times 1.0} + \frac{6,800}{0.8 \times 0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 12,155 + 17,119 = 29,274 \text{ (VA)}$$

$$Pp = P \times K = 29.3 \times 1.2 = 35 \text{ (kVA)}$$

Table 4.2-4 Demand Forecast of Typical Village at Kekhar Site (No. 104)

. :		in the state of th			
No.	Consumer	Kind of Load (Power Facilite)	Unit Capacity (W,VA)	No. of Unit	Installed Capacity (W,VA)
1	Power House	Lamp	60	2	120
2	(Village Office with Hall)	Lamp Public Address	60 100	10 1	600 100
		System			
3	(Dispensary)	Lamp Room Heater Water Heater Refrigerator Germicidal Lamp	5,000 3,600 200 20	5 1 1 2	300 5,000 3,600 200 40
4	(Vet. Dispensary)	Lamp Water Heater Refrigerator Germicidal Lamp	60 3,600 200 20	5 1 1 2	300 3,600 200 40
5	(Primary School)	Lamp Fluorescent Lamp Public Address System	60 40 100	35 40 1	2,100 1,600 100
6	(Agriculture Sub Center)	Lamp	60	5	300
7	(Branch Post Office)	Lamp	60	5	300
. 8	Street Lighting	Lamp	60	5	300
9	Private House	Lamp Radio	60 10	27x5 27	8,100 270
10	(Rice Milling Plant)	Motor	3,700	. 1	3,700
11	(Sawmill)	Motor	5,500	1	5,500

12	Total			
(1)	Excluding Private House	Lamp Fluorescent Lamp Heater Power		4,320 1,680 12,200 600
(2)	Including Private House	Total Lamp Fluorescent Lamp		18,800 12,420 1,680
		Heater Power Total		12,200 10,070 36,370

Case 1 Excluding Private House

$$P \ge \left(\frac{4,320}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0\times1.0} + \frac{600}{0.8\times0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 2,943 + 9,853 = 12,796 \text{ (VA)}$$

Then, Required Power Plant Out Put is as follow:

$$Pp = P \times K = 12.8 \times 1.2 = 15 \text{ (kVA)}$$

Where, K is Transmission & Distribution Loss Factor

$$P \ge \left(\frac{12,420}{1.0} + \frac{1,680}{0.8}\right) \times 0.5 \times \frac{1.1}{1.2} + \left(\frac{12,200}{1.0 \times 1.0} + \frac{10,070}{0.8 \times 0.8}\right) \times 0.75 \times \frac{1.1}{1.1}$$

$$= 6,655 + 20,951 = 27,606 \text{ (VA)}$$

$$Pp = P \times K = 27.6 \times 1.2 = 33 \text{ (kVA)}$$

ANNEX-8 DISCHARGE DATA

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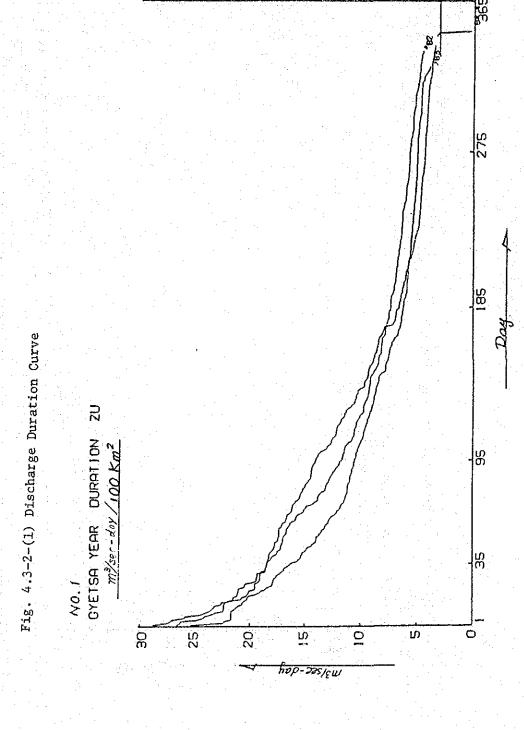
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NNEX-9 DISCHARGE DURATION CURVES



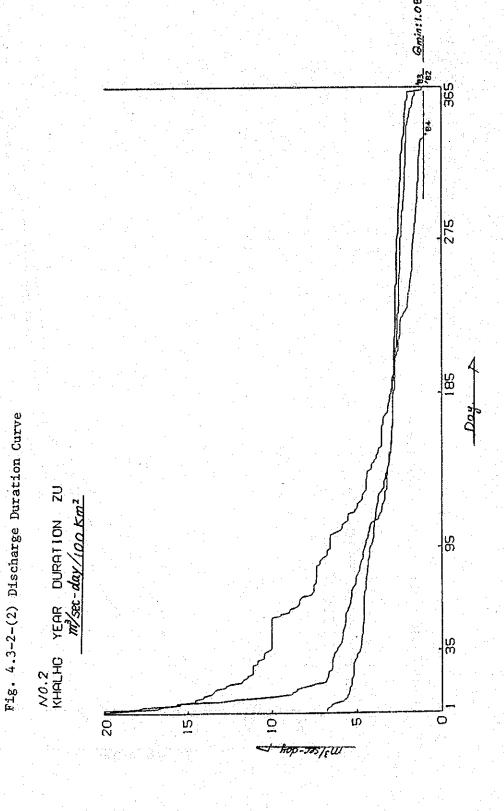


Fig 4.3-2- (3) Discharge Duration Curve

