(7) Duties and responsibilities of the applicant in the organization

- (8) If the organization takes the form of a stock company, please explain within the extent you can.
 - a) Names of investors

b) Respective investor's share of the total capital of the organization

c) Company's share of the market

Mr./Msas a candidate for the c	course in	The In	nprov	eme	nt fo	r El	ectric	Power
Distribution Grid on b	ehalf of	the gov	ernm	ent				
of						200-04		
¹¹								
Date:								
Name of Endorser:								
Title:								
		2.5						
Name of Organization	:							
(Signature)								

ANNEX 3

Country Report

1. Current situation of electric power distribution facilities

(1) Service voltage level for the respective contract categories (Example)

Contract capacity	Service voltage
less than 50kW	100/200V
50kW- less than 2,000kW	6.6kV
Over 2.000kW	22kV

(2) Standard substation bank capacity for distribution and standard number of feeders (Example)

Area	Bank capacity	Number of feeders
City	10,15, 20, 30MVA×3	6 feeders × 3
Rural	10,15, 20, 30MVA×3	6 feeders × 3

(3) Distribution system

(Example)

6.6kV: ungrounded-neutral three-phase three-wire system

(4) Distribution Power Grid
Please attach the typical distribution power grid map of your company.

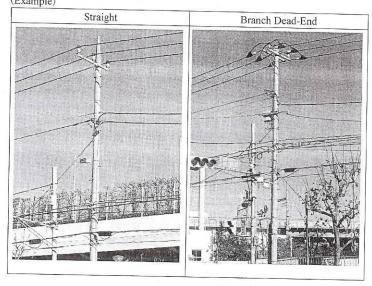
(5)Standard capacity of distribution feeder (both overhead and underground) (Example)

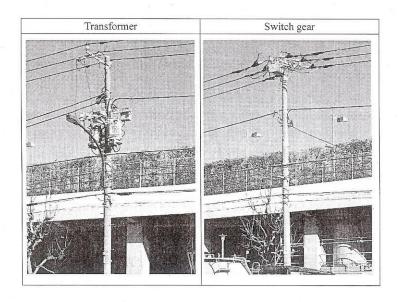
descriptions	Maximum operating capacity	Maximum operating current	
Overhead	about 4,500 kVA	392 A	
Underground	about 4,500kVA	392 A	

(6) Main distribution facilities (Example)

Pole	Type	Reinforced Concrete Pole		
TOIC	Length [m]	7~17		
	Material	Cupper		
Wire	Size [sq]	LV: 22, 38, 60		
	Size [sq]	HV: 22, 38, 60, 100, 15		
Fransformer	Phase	Single phase		
r and of the	Capacity [kVA]	5, 10, 20, 30, 50, 75, 100		
	Туре	Air Switch		
Switch gear	туре	Gas Switch		
	Capacity [A]	200, 400, 600		

(7) Picture of distribution pole framing(配電装柱の写真) (Example)





(8) Faults

 \cdot Number of distribution line faults $\,$ (number of cases :during Fiscal Year 2009 , and 2010)

Description	ns	FY 2009	FY 2010
Total number of	of faults (unit: cases)		
Causes detail	Lightning		
	Bird and beast		
	Wind /Rainstorm		Designation of A State St. Cheap with the court from
	Old facilities		
	Human causes		
	unknown		

0	thers	
SAIDI *1		
SAIFI *2		

*1 SAIDI (System Average Interruption Duration Index) unit : minutes / year • customer

(9) Maintenance

The frequency of patrol (inspection) for distribution equipments

(10) Please describe the equipment or any parts to repair the most in distribution facilities and how to repair them. (Describe about them over three contents)

(11) Power line protection system

^{*2} SAIFI (System Average Interruption Frequency Index) unit : times / year · customer

(12) Specification for main distribution facilities

Please describe the specification for main distribution facilities such as electric power pole, pole-switch, pole-transformer, conductor, cable, etc.

(13) General information

- · Area of the country
- · Population
- · Temperature (maximum, minimum, average)

	eneral Dat				Fiscal Year		
Descriptions		2006	2007	2008	2009	2010	
	Household	d					
Electric	Agricultur						
Power	Commerc	ial					
Demand	Industries						
(GWh)	Others						
	Total						
[Date]	Peak Lo	, ,					
Annual Load	Factor (%						
Transmission/Distribution Loss (%)							
Power Supply Reserve Margin (%)						-	
	Hydro-el	Conventional				-	
	ectric	Pumped Storage					-
	CCLITC	Sub-total					
		Coal					
		Oil-Based					
Communica	Thermal	Gas Turbine				-	
Generating	Herman	Combined					-
Capacity (MW)		Diesel					-
(IVI VV)		Sub-total					
	Nuclear						_
	Wind Po				_		1
	Geothern	nal					
	Others						
	Total	0/)					
Rural Electr	***************************************	%)					
Number of							
Number of l	Employees	Van/kW/h) *					
Average Po	wer Rate (Yen/kWh) *					

^{*} US Dollar 1 = Japanese Yen 100.

stem Diagran	n of Electric	Power Ind	ustry		ization Char	

Company Organizatio	on Chart		
		*	

4. Power Grid Map

Legend:
Thermal Power Station
Hydroelectric Power Station
500kV Transmission Line
220kV Transmission Line
110kV Transmission Line
Substation

5. Generation Capacity of IPPs

5, 00	neration Capac			Fiscal Year		
Des	scription	2005	2006	2007	2008	2009
Hydro-el	Conventional					
ectric	Pumped Storage					
(MW) Sub-t	Sub-total					
	Coal					
	Oil-Based					-
m 1	Gas Turbine					
Thermal (MW)	Combined					
	Diesel					
	Others					-
	Sub-total					

6. Future Plan (Demand Forecasting)

6. Futu	ire Plan	(Demand F	orecasting)		Around FY	2015
Г	Description		FY 2009	Percent	Alound 1	Percent
Electric Pov	ver Dema	nd (GWh)				
Maximum I						
Supply Res	erve Marg	gin (%)				
1, -	Hydro-el	Conventional				
	ectric	Pumped storage				
		Sub-total				
	Thermal	Coal				
		Oil-Based				
		Gas Turbine				
Generating		Combined				
Capacity		Diesel				
(MW)		Sub-total				
	Nuclear	Power				
	Wind Po	ower				
	Geother	mal				
	Others					
	IPPs					
	Total					

7. Electricity Tariff
Please attach an electricity tariff of your company.

8. Electric Power Industry in the Future (Restructuring the Power Market, Privatization of the Power Utilities, Pooling System of the Power Market, etc)

9.	Training	System	of a ne	w employee	at y	our	department
----	----------	--------	---------	------------	------	-----	------------

	Objective	Subject
1st year		
nd - 3 rd years		
After 3years		

10. Work clothes and shoes Size

Participants will be required to wear a helmet, work clothes and work shoes in a technical visit or a fieldwork during the training.

Please fill in all the blanks so that Japanese side can prepare them in advance even if the participants bring their own.

Work jacket	Neck circumference	Chest circumference
WOLK Jacket	em	cm
Work pants	Waist circumference	Inseam(length of the inside leg) cm

cm

ANNEX-4

Notes for making Issue Analysis Sheet and Dissemination Plan

● Issue Analysis Sheet (ANNEX 4(1))

- 1. This sheet consists of 4 parts, (A) Issue, (B) Cause, (C) Measure, (D) Target.
- 2. Please describe the issues which you and your organization face at present in the (A).
- 3. Please analyze the issues in three aspects, Human or Organization, Material and Budget in the (B).
- 4. Please describe the necessary countermeasures which you think of now in the (C).
- 5. Please describe the targets desired to obtain from this training in the (D).

The Issue Analysis Sheet should be filled out based on the discussion with your superior or related personnel about this matter, as it is essential documents which enable the training program to meet the participants' needs.

ODissemination Plan (ANNEX 4(2))

- 6. This plan consists of 4 parts, (E) Result, (F) How to promote, (G)Your own activities and (H) Period.
- 7. Based on the(D) Target, please describe the results in the (E). If the results aere more than you expected, you can write down additionally.
- 8. Please describe the measures to promote what you have got through this training course in your organization when you return to your country. It is preferable to describe the details as much as possible.
- 9. Please describe your estimated period to conduct your plan which you described in the (F)
- 10. Please describe your own opinions and actions (G).
- 11. The more concrete you write your dissemination plan, the better it will be.

ANNEX 4 (1) Issue Analysis Sheet: Please fill in the blanks before arrival in Japan (B). Cause	Human: Describe how to improve of human ability. Knowledge and Experience desired to obtain from this managed to obtain from this training course.		- Make a rule for maintenance.	lated material of -Change the specifications of transformersChange the specifications of transformersDiscussing with Japanese experts and other trainees about suitable specification.	erioration of various -To replace 100 transformers a year, we ipment (due to the need US\$50000/year for the next ten years.			
sis Sheet: Please fill in the blanks be (B). Cause	Human: D		-Periodic patrol and inspection are not conducted.	-Insulated material of -Chang bushings is weak.	-Deterioration of various -To rep equipment (due to the shortage of budget) years.	I		
) Issue Analys.		Sort	Human or Organization	Material	Budget	Human or Organization	Material	
ANNEX 4 ((A). Issue			accident often makes blackout.	ti.			
	°N°			EX			-	

	4			w			2		Š	Z
									(A). Issue	
Budget	Material	Human or Organization	Budget	Material	Human or Organization	Budget	Material	Human or Organization	Sort	
î	I	1	1		1	I.		ı	Detail	(B). Cause
1	1	1	ı	1	1		ı		Material: Describe the necessary performance. Money: Describe the rough estimate.	(C). Measure Human: Describe how to improve of human ability.
			1			T		1	training course.	(D). Target Knowledge and Experience desired to obtain from this

♦Expectation to the applied training Program

Please describe what you intend to achieve in the training program.

oh

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100	٠

No	(F). How to pro	(F). How to promote	(G).your own activities	(H).	(H). Period	po
	country In Japan, there is a clear and accurate rule for various patrols and inspections and they are	- Considering the best way of making database of patrol and inspection.	-Building a tentative database, and explain it to your boss	2012	2	2012
Ex (Human)	conducted strictly as the rules. > We should make a maintenance rule. -In order to maintain the equipments effectively, it is	- Making the guideline for patrol/inspection, such as frequency and data management, and distribute it to all office.	-Organizing a working group with the related department	2012	2	2012
	necessary to store the results in a canadase. We should make a database system to store the result of patrols and inspections.	- Holding the training for the above manual at every office	Arranging a training	2012	ł	2013
-						
2						
3						
4						

For Your Reference

JICA and Capacity Development

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that "capacity development" is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the "adopt and adapt" concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this "adoption and adaptation" process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan's developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of "tacit knowledge," a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



CORRESPONDENCE

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