

資料

資料 1: 調査団員氏名、所属

調査団員氏名、所属

(1) 官団員

氏名	担当業務	所属
杉山 茂	総括	JICA 産業開発・公共政策部 次長兼資源・エネルギーグループ長
森 淳希	計画管理	JICA 産業開発・公共政策部 資源・エネルギーグループ 第一チーム 副調査役
讓尾 進	総括	JICA 産業開発・公共政策部 資源・エネルギーグループ 参事役 第一チーム 課長
岡田 有加	計画管理	JICA 産業開発・公共政策部 資源・エネルギーグループ 第一チーム
武市 直己	JICA バヌアツ支所	JICA バヌアツ支所 支所長
大原 克彦	JICA バヌアツ支所	JICA バヌアツ支所 企画調整員

(2) コンサルタント団員

氏名	担当業務	所属
佐野 裕一	業務主任／電力開発計画	(株)ニュージェック
猿橋 崇央	副業務主任／土木計画	(株)ニュージェック
三村 正俊	水力機械設備／ 水力電気設備	(株)ニュージェック
伊藤 誠治	調達計画／積算	(株)ニュージェック
阿部 武司	施工計画／積算	(株)ニュージェック
上田 広和	自然条件調査(地形/地質/水文) ／土木設計	(株)ニュージェック
小原 正宜	系統連系計画	(株)ニュージェック
古田 真三	建築計画	(株)建設技研インターナショナル
市川 峻平	環境社会配慮	(株)建設技研インターナショナル
古澤 直子	業務調整	(株)ニュージェック

資料 2: 調査日程

第 1 回現地調査行程

Date	Day	Vanuatu Holiday	Team Leader/Power Development Planning	Deputy Team Leader/Civil Engineering Planning	Construction Planning/Cost Estimate	Natural Condition Survey (Geography, Geology, Hydrology)/Civil Design	Hydro Machinery and Electric Equipment	Network System Planning	Project Coordinator
1 2018/1/10	Sat	O	Mr. Yuichi SANO / NEW JEC Inc.	Mr. Takeao SARUHASHI / NEW JEC Inc.	Mr. Takeo ABE / NEW JEC Inc.	Mr. Hirokazu UEDA / NEW JEC Inc.	Mr. Masatoshi MIMURA / NEW JEC Inc.	Mr. Masayoshi OHARA / NEW JEC Inc.	Ms. Naoko FURUSAWA / NEW JEC Inc.
2 2018/1/11	Sun	O	—Naadi 8:30(FJ810) Naadi20:30—Suva21:00(FJ025)	—Naadi 8:30(FJ810) Naadi20:30—Suva21:00(FJ025)	ETD. Naadi 19:30(FJ022) → ETA. Biwene05:40 —ETA. PortVila 14:05(FJ377)	—	—	—	Sydney 11:55—PortVila 19:05(FJ375)
3 2018/1/12	Mon		JCA, Japanese Embassy, Suva 12:15—Naadi 14:30—PortVila 19:05(FJ203) (Via Santo due to weather)	—	—	—	—	—	Meeting with JICA-Vanuatu Office, Meeting with Local Agent
4 2018/1/13	Tue		Kick-off Meeting*, Meeting Discussion with DOE	—	—	—	—	—	Kick-off Meeting with DOE
5 2018/1/14	Wed		ETD. PortVila. Zoukufu240—ETA. Luganville 8:40	Contract negotiation with Subcontractor	—	—	—	—	Contract negotiation with Subcontractor
6 2018/1/15	Thu		Visiting Existing Diesel PS / Sarakata PS	Contract negotiation with Subcontractor	—	—	—	—	Contract negotiation with Subcontractor
7 2018/1/16	Fri		AM, Meeting with DOE signing MoM PM, Reporting to JICA-Vanuatu Office	Meeting with DOE signing MD between DOE and JICA	—	—	—	—	Meeting with DOE signing MD between DOE and JICA
8 2018/1/17	Sat	O	Preparation of Site Survey	Meeting with Subcontractor	—	—	—	—	—
9 2018/1/18	Sun	O	Preparation of Site Survey	Preparation of Site Survey	PortVila 17:10(FJ208) —Luganville 18:00	KIX 19:00(FJ034) —Sydney	Haneda 22:00(FJ034) —Sydney 09:35	—	—
10 2018/1/19	Mon		Survey at planning PS site Intake Site	Meeting with VUI, Visiting Diesel PS, Existing PS	Survey at planning PS site Intake Site	Sydney 11:55—PortVila 15:10(FJ375) PortVila 17:10(FJ208) —Luganville 18:00	Meeting with VUI (Meeting with GM, VUI) Visiting Diesel PS, Existing PS	—	PortVila 17:10(FJ208) —Luganville 18:00
11 2018/1/20	Tue		Consultation Meeting at Samra Province Office	Meeting with DOL	—	—	—	—	Consultation Meeting Meeting with DOL
12 2018/1/21	Wed		Survey at planning PS site, Head Tank site, and Intake site	Survey along the Waterway, Access Road route	—	—	—	—	Survey at PS/HeadTank/Intake
13 2018/1/22	Thu		Check existing Waterway, Head Tank of Existing Sarakata	—	—	—	—	—	Survey along the Waterway, AR
14 2018/1/23	Fri		—	—	—	—	—	—	Existing Sarakata
15 2018/1/24	Sat	O	Data Arrangement	Data Arrangement	Luganville 08:30(NF211) — PortVila 15:20(NF010) —Sydney	Luganville 08:30(NF211) — PortVila 15:20(NF010) —Sydney	Haneda 05:35(NF880) —Haneda 10:10(NH013)	Data Arrangement	—
16 2018/1/25	Sun	O	Data Arrangement	Data Arrangement	—	—	—	—	—
17 2018/1/26	Mon		Survey along planning waterway to Intake	Survey along planning waterway to Intake	—	—	—	—	Meeting with DOL
18 2018/1/27	Tue		Checking Discharge Measurement, Survey at planning PS	Meeting with Contractors in Santo Island	—	—	—	—	Meeting with CLMO
19 2018/1/28	Wed		Meeting with VUI and CLMO	Meeting with Contractors in Santo Island	—	—	—	—	Meeting with VUI and CLMO
20 2018/1/29	Thu	O	Survey along the river for CS survey	Meeting with Contractors in Santo Island	—	—	—	—	Data Collection
21 2018/1/30	Fri		Meeting with Samra Province, Luganville Municipality, VUI Luganville 18:50(NF209) —PortVila 19:40	Meeting with Contractors in Santo Island Luganville 18:50(NF209) —PortVila 19:40	—	—	—	—	Meeting with Samra Province, Luganville Municipality, VUI, and DOL
22 2018/2/1	Sat	O	Data Collection / Preparation of Report	Data Collection / Preparation of Report	—	—	—	—	—
23 2018/2/2	Sun	O	Data Collection / Preparation of Report	Data Collection / Preparation of Report	—	—	—	—	—
24 2018/2/3	Mon		Meeting with DOE, VMGD	Meeting with DOE, Local Construction Companies	—	—	—	—	Meeting with VUI, DOE
25 2018/2/4	Tue		Meeting with VPMU, DSPPAC	Meeting with Local Suppliers	—	—	—	—	Meeting with VUI, DOE, DOL
26 2018/2/5	Wed		Meeting with ADBWB	Meeting with related Suppliers/Agencies	—	—	—	—	AM 2nd Consultation Meeting Luganville 18:50(NF209) —PortVila 19:30
27 2018/2/6	Thu		Meeting with URA, DOL, DOWR, PWD	Meeting with related Suppliers/Agencies	—	—	—	—	Meeting with DOL, DOWR
28 2018/2/7	Fri		Reporting to DOE, JICA	Reporting to DOE, JICA	—	—	—	—	—
29 2018/2/8	Sat	O	PortVila 15:20(NF010,QJ376) —Sydney 19:15	PortVila 15:20(NF010,QJ376) —Sydney 19:15	—	—	—	—	—
30 2018/2/9	Sun	O	Haneda 05:00(FJ025) —Haneda 08:40(JL103)	Haneda 05:00	—	—	—	—	—

Key Meeting
 * Kick-off Meeting member: **DOE**: Department of Energy, **DSPAC**: Department of Strategic Policy Planning and Aid Coordination, **DEPC**: Department of Environmental Protection and Conservation, **VPMU**: Vanuatu Project Management Unit
Abbreviation: **PS**: Power Station, **SS**: Substation, **TL**: Transmission Line, **AR**: Access Road, **MD**: Minutes of Discussion
MCCA: Ministry of Climate Change Adaptation, Meteorology, Geo-Hazards, Environment, **VMGD**: Vanuatu Meteorology & Geo-Hazards, Department, **MCCA**, **MLNR**: Ministry of Lands and Natural Resources, **DOL**: Department of Lands, **VUI**: Vanuatu Utilities and Infrastructure (Limited), **URA**: Utilities Regulatory Authority, **CLMO**: Custom Land Management Office, Ministry of Justice, **PWD**: Public Works Department, **Public Works** Sarima Province Office, Ministry of Infrastructure and Utilities, **ADB**: Asian Development Bank, **DGMWR**: Department of Geology, Mines and Water Resources

第 2 回現地調査行程

No.	Date	Day	Consultant			
			Deputy Team Leader/Civil Engineering Planning	Construction Planning/ Cost Estimate	Environmental /Social Consideration	Natural Condition Survey (Geography, Geology, Hydrology)/ Civil Design
			Mr. Takao SARUHASHI/ NEW JEC Inc.	Mr. Takeshi ABE/ NEW JEC Inc.	Mr. Shumpei ICHIKAWA/ CTII Ltd.	Mr. Hirokazu UEDA/ NEW JEC Inc.
1	2019/2/14	Thu	Haneda 22:00 (QF026) →Sydney 09:35			
2	2019/2/15	Fri	Sydney 11:55→Port Vila 15:10 (QF375)			
3	2019/2/16	Sat	Meeting with Sub-contractor in Port Vila			
4	2019/2/17	Sun	Data collection			
5	2019/2/18	Mon	Data collection			
6	2019/2/19	Tue	Port Vila 14:00 (NF208) →Luganville 15:00 Meeting with VUI, Sub-contractor (geological investigation)			
7	2019/2/20	Wed	Site Survey: Instruction of Drilling points (PS, headtank, waterway)			
8	2019/2/21	Thu	Site Survey: Instruction of Drilling points (Weir, Settling basin, waterway)			
9	2019/2/22	Fri	Meeting with VUI, DOL, PRV at Luganville and Site Site Survey: Instruction of Access Route survey			
10	2019/2/23	Sat	Site Survey: Instruction of Drilling Points (waterway)			
11	2019/2/24	Sun	Luganville 08:00 →Port Vila 08:50 (NF211)			
12	2019/2/25	Mon	Meeting with Sub-Contractor in Port Vila			
13	2019/2/26	Tue	Meeting/discussion with DOE			
14	2019/2/27	Wed	Meeting/discussion with DOE			
15	2019/2/28	Thu	Meeting and discussion with Sub-contractors			
16	2019/3/1	Fri	Meeting with JICA, DOE			
17	2019/3/2	Sat	Port Vila 15:20 (NF010,QF376) →Sydney 19:15, Sydney 21:35			
18	2019/3/3	Sun	→Haneda 05:00 (QF025)			
19	2019/3/4	Mon				
20	2019/3/5	Tue				
21	2019/3/6	Wed				
22	2019/3/7	Thu				
23	2019/3/8	Fri				
24	2019/3/9	Sat				
25	2019/3/10	Sun				
26	2019/3/11	Mon			Tokyo Narita 19:30 →Brisbane 5:40 (QF062)	
27	2019/3/12	Tue			Brisbane 9:00 →Port Vila 14:05 (AF377)	
28	2019/3/13	Wed			Meeting with JICA	
29	2019/3/14	Thu			Meeting with DOE & sub-contractor	
30	2019/3/15	Fri			Meeting with DEPC, DOL	
31	2019/3/16	Sat			Data Collection	
32	2019/3/17	Sun			Data Collection	
33	2019/3/18	Mon			Meeting with Sub-Contractor /Contract preparation	
34	2019/3/19	Tue			Meeting with DOWR	
35	2019/3/20	Wed			Meeting with DOF	
36	2019/3/21	Thu			Meeting with DEPC/Contract preparation	
37	2019/3/22	Fri			Contract preparation	
38	2019/3/23	Sat			Port Vila 17:10 (NF208) →Luganville 18:00	
39	2019/3/24	Sun			Data Collection	
40	2019/3/25	Mon			Site Survey /Meeting with VUI	
41	2019/3/26	Tue			Site Survey	
42	2019/3/27	Wed			Site Survey /Meeting with Sanma Environment and Extension Office Luganville 18:40 →Port Vila 19:30 (NF209)	
43	2019/3/28	Thu			Contract preparation	
44	2019/3/29	Fri			Contract with sub-contractor for ESC survey / Meeting with DOE & sub-contractor /JICA	
45	2019/3/30	Sat			Port Vila 15:20 →Sydney 19:15 (QF376), 21:35 → →Haneda 5:00 (QF025)	KIX 19:00 (QF034) →Sydney
46	2019/3/31	Sun				Sydney 11:55 →Port Vila 15:10 (QF375)
47	2019/4/1	Mon				
48	2019/4/2	Tue				
49	2019/4/3	Wed				
50	2019/4/4	Thu				Site Survey : Supervision and Checking results of drilling investigation
51	2019/4/5	Fri				
52	2019/4/6	Sat				
53	2019/4/7	Sun				Reporting
54	2019/4/8	Mon				Site Survey : Instruction of laboratory testing and investigation report
55	2019/4/9	Tue				Luganville 08:00 (NF211) →Port Vila 13:50
56	2019/4/10	Wed				→Haneda 05:15 (QF25) →Ham 08:35

Abbreviation: PS: Power Station, SS: Substation, TL: Transmission Line, ESC: Environment and Social Consideration

MCCA: Ministry of Climate Change Adaptation, Meteorology, Geo-Hazards, Environment **DOE:** Department of Energy, MCCA, **DEPC:** Department of Environmental Protection and Conservation, MCCA, **DEPC:** Department of Environmental Protection and Conservation, MCCA, **DOF:** Department of Forestry, MALFFB

MOL: Ministry of Lands and Natural Resources, **DOL:** Department of Lands, MOL, **DOWR:** Department of Water Resources, MOL

MALFFB: Ministry of Agriculture, Livestock, Forestry, Fisheries and Biosecurity, **DOF:** Department of Forestry, MALFFB

VUI: Vanuatu Utilities and Infrastructure Limited)

第 2 回現地調査行程 (2)

Date	Day	Vanuatu Holiday	Environmental / Social Consideration	Remarks
			M. Shunpei ICHI KAWA/ CII Ltd.	
1	2019/9/25	Wed		Tokyo Narita 19:55 → Brisbane 5:55 (QF062)
2	2019/9/26	Thu		Brisbane 8:00 → Port Vila 11:50 (QF377) Meeting with JICA
3	2019/9/27	Fri		Meeting with Sub-Contracter
4	2019/9/28	Sat		
5	2019/9/29	Sun		
6	2019/9/30	Mon		Meeting with DCE and Sub-Contracter
7	2019/10/1	Tue		Meeting with DCL
8	2019/10/2	Wed		Preparation report with Sub-Contracter
9	2019/10/3	Thu		Preparation report with Sub-Contracter / Meeting with DCE
10	2019/10/4	Fri		Meeting with JICA, DCE & Sub-contractor Port Vila 21:30 → Brisbane 23:30 (QF378)
11	2019/10/5	Sat		Brisbane 9:35 → Narita 17:55 (QF061)
12	2019/10/6	Sun		

第 3 回現地調査

COVID19 により渡航中止。国内から Web 会議 (2020 年 10 月 8 日) で対応。

資料 3: 相手国関係者リスト

相手国関係者リスト

気候変動適応・気象・地質災害・環境・エネルギー・災害管理省	Ministry for Climate Change Adaptation, Meteorology, Geo-Hazards, Environment, Energy and Disaster Management (MCCA)
Mr. Jesse Benjamin	Director General
エネルギー局	Department of Energy (DOE), MCCA
Mr. Anthony Garae	Director
Mr. Matthew Tasale	Electrification Manager
Mr. Joseph Temakon	Principal Scientific Officer (PSO), Urban Electrification
Mr. Gary Erick	Principal Scientific Officer (PSO), Rural Electrification
Mr. David G	Acting Director
Ms Elizabeth Sam Waiwai	Administration Officer
バヌアツ気象・地質災害局	Vanuatu Meteorology and Geo-Hazards Department (VMGD) , MCCA
Ms Melinda NATAPEI	Acting Manager, Climate Division
Ms Esline Garabiti BULE	Acting Director, Geo-Hazards Division
環境保全局	Department of Environmental Protection and Conservation, MCCA
Ms. Donna Kalfatak	Director
Mr. Osborne Melenamu	EIA Division
Ms. Norma Tor	Principal EIA Officer
環境保全局サンマ州事務所	Sanma Environment and Extension office
Mr. Anaclet Philip	Sanma Environment and Extension Officer
Mr. Kensly Micah	Provisional Disaster Officer
土地・天然資源省	Ministry of Land and Natural Resources (MLNR)
土地局	Department of Lands
Mr. Paul Gambetta	Acting Director, Department of Water Resources (DWR)
Mr. Jimmy Pierre	Acquiring Officer, Department of lands
Mr. Benuel Tabi	Planning and Enforcement Officer, Department of Lands, Luganville, Santo Island
Mr. Manses Fatdal,	Senior Lands Officer, Department of Lands, Luganville, Santo Island
Mr. Phillip Koroba	Surveyor North, Department of Lands, Luganville, Santo Island
水資源局	Department of Water Resources (DWR)
Mr. McCartney Agu	Acting Director, Department of Water Resources (DWR)
Mr. Erie Sami	Manager Monitoring & Evaluation
農業・畜産・林業・水産・検疫省	Ministry of Agriculture, Livestock, Forestry, Fisheries and Biosecurity (MALFFB)
林業局	Department of Forestry
Mr. Rixon Vira	Director
法務・コミュニティサービス省	Ministry of Justice and Community Services
Mr. Fredington Aru	Principal Custom Land Officer, Custom Land Management Northern Provinces Office
バヌアツプロジェクト管理室	Vanuatu Project Management Unit (VPMU), Prime Minister's Office, Government of Vanuatu

Mr. Johnson Wabaiat Wakanomune	Program Director
戦略的政策・援助調整局	Department of Strategic Policy Planning and Aid Coordination (DSPPAC), Prime Minister's Office, Government of Vanuatu
Mr. Willie Pakoa Luen	Head of Aid Coordination and Negotiation Unit
インフラ・公益事業省	Ministry of Infrastructure & Public Utilities (MIPU)
公共事業局	Public Works Department (PWD)
Mr. Junior George Shim	Acting Director
事業運営民間企業	Vanuatu Utilities and Infrastructures (VUI)
Mr. Peter Allen	General Manager
Mr. Rodolfo R. Fernandez JR.	Operations Supervisor
Mr. Job U. Pe	Electical Engineer
Mr. Kasso Kalmet	Stock Controller
公共事業規制庁	Utilities Regulatory Authority (URA)
Mr. John Obed Alilee	Chief Executive Officer
Mr. Davidson Seth	Junior Auditor
Mr. Louis Vakaran	Legal Manager
Mr. Junior Natu	Engineering Officer
Mr. Romney Harun	Manager of Engineering & Consumer Division
Mr. Marie Helene Barthelemy	Office Manager – North Branch (Luganville)
世界銀行	World Bank Vanuatu Office
Ms Leisande Otto	Liaison Office
国際移住機関	International Organization for Migration (IOM)
Mr. Lukasz Knuk	Information manager for Displacement Tracking
在フィジー日本大使館	Embassy of Japan
大村 昌弘	特命全権大使
羽田 貢由	参事官
大平 弘太郎	二等書記官
JICA フィジー事務所	Japan International Cooperation Agency, Cambodia Office
大野 ゆかり	所長
塚水尾 真也	次長
棚沢 里奈	所員
JICA バヌアツ支所	Japan International Cooperation Agency, Cambodia Office
武市 直己	支所長
大原 克彦	企画調整員

面談先一覧

No.	面談日時	面談先	面談者
1	11月12日 9:00	JICA FIJI Office	JICA FIJI Office 大野ゆかり所長、堰水尾真也次長、榑沢里奈所員 JICA 杉山茂次長、森淳希副調査役
2	11月12日 9:30	Embassy of Japan in Fiji	フィジー大使館 大村昌弘特命全権大使、羽田貢由参事官、大平弘太郎二等書記官 JICA 杉山茂次長、森淳希副調査役
3	11月13日 13:30	DOE, DOL, DEPC, VPMU Kick Off Meeting	DOE Mr. David G, Mr. Matthew Tasale, VPMU Mr. Johnson Wabaat, Department of Environment, Mr. Osborne Melenamu Department of Lands, Mr. Jimmy Pierre, JICA 杉山茂次長、森淳希副調査役、 JICA 武市バスアツ所長、大原企画調整員
4	11月13日 15:00	URA	URA John Obed Alilee, CEO, Louis Vakaran, Legal Manager, Romney Harun, Manager ECCO JICA 杉山茂次長、森淳希副調査役 JICA バスアツ武市所長、Mr. Tabiaga, Ini Program Officer
5	11月15日 9:00	VUI	VUI, Mr, Rodolfo R. Fernandez JR. Operations Supervisor, VUI, JICA 杉山茂次長、森淳希副調査役
6	11月15日 13:00	VUI diesel power house	VUI Mr. Rodolfo R. Fernandez JR., Operations Supervisor JICA 杉山茂次長、森淳希副調査役
7	11月16日 9:00	DOE, Minutes of Discussion	Mr. Jesse Benjamin, Director General, Ministry of Climate Change Adaptation, Meteorology, Geo-Hazards, Environment and Energy. Mr. Joseph Temalau, DOE JICA 杉山茂次長、森淳希副調査役
8	11月19日 9:00	VUI	Mr. Peter, Director, Mr. Kasso Kalmet, VUI Matthew Tiasale, DOE
9	11月23日 15:00	VUI diesel power house	Mr. Fernandez, Operations Supervisor, VUI
10	11月26日 14:00	Sanma Emergency Provincial Operation Center	Mr. Lukasz Knuk, information manager for Displacement Tracking, IOM Mr. Kensly Micah, Provisional Disaster Officer, NDMO Mr. Gary from DOE
11	11月27日 13:00	VUI diesel power house	Mr. Fernandez, Operations Supervisor, VUI Job U. Pe Electrical Engineer, VUI
12	11月27日 14:00	Sanma environment and Extension office	Mr. Anaclet Philip, Sanma Environment and Extension Officer
13	11月28日 14:00	VUI Office	Mr. Fredington Aru, Principal Custom Land Officer, Custom Land Management Northern Provinces Office. Mr. Kamlet Kasso, VUI
14	11月30日 11:00	VUI head office	Mr. Peter General Manager, VUI
15	12月3日 8:30	DOE	Mr. Anthony Garae, Director, DOE
16	12月3日 10:30	Climate Division, VMGD	Ms Melinda Natapei, Acting Manager, Climate Division, VMGD
17	12月3日 10:30	Geo-Hazards Division	Ms Esline Garabiti BULE, Acting Director, Geo-Hazards Division, VMGD

No.	面談日時	面談先	面談者
18	12月4日 10:30	Office of Department of Water Resources (DWR)	Mr. McCartney Agu, Office of Department of Water Resources (DWR)
19	12月4日 13:30	DOL, Luganville	Dept of Lands, Luganville, Santo Island Mr. Benuel Tabi Mr. Mansu Fatdal, Mr. Phillip Koroba Mr. Matthew Tasale (DOE)
20	12月4日 14:30	VPMU Program Director's Office	Mr. Johnson Wabaiat Wakanomune, Program Director, VPMU, Mr. Willie Pakoa Luen, Head of Aid Coordination and Negotiation Unit, DSPPAC
21	12月5日 10:30	World Bank Vanuatu Liaison Office	Ms Leisande Otto, Liaison Office, WB Vanuatu Office
22	12月06日 9:00	URA 會議 Port Vila	John Obed Alilee, Davidson Seth, Louis Vakaran, Junior Natu, URA
23	12月6日 14:00	Public Works Department Port Vila	Mr. Junior George Shim ,Acting Director, Public Works Department
24	12月6日 10:00	Department of Lands, Port Villa	Mr. Paul Gambetta, Acting Director, Department of Lands
25	2019年 2月25日 16:00	DOE	Mr. Anthony Garae, Director, DOE, Mr. Matthew Tasale, Electrification Manager
26	3月1日 16:00	DOE	Mr. Matthew Tasale, Electrification Manager
27	3月1日 9:00	JICA	武市直己支所長、大原克彦企画調整員
28	3月15日 14:00	土地局(DOL)	DOL Mr. Paul Gambetta (Director of DOL)
29	3月29日 15:00	DOE	DOE Mr. Matthew Tasale (Electrification Manager), Mr. Gary Erick (Principal Scientific Officer)

資料 4: 討議議事録 (M/D)

(1) 第1次現地調査時 議事録(2018年11月16日)

**Minutes of Discussions
on the Preparatory Survey for the Project for
the Construction of Hydropower Station in Espiritu Santo Island**

Based on the several preliminary discussions between the Government of the Republic of Vanuatu (hereinafter referred to as “Vanuatu”) and Japan International Cooperation Agency (hereinafter referred to as “JICA”), JICA dispatched the Preparatory Survey Team for the Outline Design (hereinafter referred to as “the Team”) of the Project for the Construction of Hydropower Station in Espiritu Santo Island (hereinafter referred to as “the Project”) to Vanuatu. The Team held a series of discussions with the officials of the Government of Vanuatu and conducted a field survey. In the course of the discussions, both sides have confirmed the main items described in the attached sheets.

Port Vila, 16th November, 2018



Shigeru SUGIYAMA
Leader
Preparatory Survey Team,
Japan International Cooperation Agency
Japan



Jesse Benjamin
Director General
Ministry of Climate Change Adaptation,
Meteorology, Geo-Hazards, Environment and
Energy
Vanuatu



ATTACHMENT

1. Objective of the Project

The objective of the Project is to decrease dependence on imported fuel through construction of a new run-of-river type hydro power station, thereby contributing to economic and social development of the region.

2. Title of the Preparatory Survey

Both sides confirmed the title of the Preparatory Survey as “the Preparatory Survey for the Project for the Construction of Hydropower Station in Espiritu Santo Island”.

3. Project site

Both sides confirmed that the site of the Project is in Espiritu Santo Island, which is shown in Annex 1.

4. Responsible authority for the Project

Both sides confirmed the authorities responsible for the Project are as follows:

- 4-1. The Department of Energy, Ministry of Climate Change Adaptation, Meteorology, Geo-Hazards, Environment and Energy will be the executing agency for the Project (hereinafter referred to as “the Executing Agency”). The Executing Agency shall coordinate with all the relevant authorities to ensure smooth implementation of the Project and ensure that the undertakings for the Project shall be managed by relevant authorities properly and on time. The organization charts are shown in Annex 2.

5. Items requested by the Government of Vanuatu

- 5-1. As a result of discussions, both sides confirmed that the items requested by the Government of Vanuatu are as follows:

- Construction of a new run-of-river type hydropower station at Sarakata River
- Construction of transmission line to connect the new power station with the grid, and new transformers when required.
- Preparation of temporary access road for the construction work

- 5-2. JICA will assess the feasibility of the above requested items through the survey and will report the findings to the Government of Japan. The final scope of the Project will be decided by the Government of Japan.

- 5-4. Although temporary work for construction should generally be an undertaking of

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a recipient country, the Vanuatu side included the preparation of temporary access road in the requested contents, as the range of access road preparation is large in the Project. The Team took note and explained that the eligibility of access road preparation shall be decided by the Government of Japan.

5-5. The Government of Vanuatu shall submit an official request to the Government of Japan through a diplomatic channel before the appraisal of the Project, which is scheduled in August, 2019.

6. Procedures and Basic Principles of Japanese Grant

6-1. The Vanuatu side agreed that the procedures and basic principles of Japanese Grant as described in Annex 3 shall be applied to the Project.

As for the monitoring of the implementation of the Project, JICA requires Vanuatu side to submit the Project Monitoring Report, the form of which is attached as Annex 4.

6-2. The Vanuatu side agreed to take the necessary measures, as described in Annex 5, for smooth implementation of the Project. The contents of the Annex 5 will be elaborated and refined during the Preparatory Survey and be agreed in the mission dispatched for explanation of the Draft Preparatory Survey Report.

The contents of Annex 5 will be updated as the Preparatory Survey progresses, and eventually, will be used as an attachment to the Grant Agreement.

7. Schedule of the Survey

7-1. The Team will proceed with further survey to collect necessary information for design in Vanuatu until around April, 2019.

7-2. The Government of Vanuatu will submit an official request of the Grant to the Government of Japan before August, 2019.

7-3. JICA will prepare a draft Preparatory Survey Report in English and dispatch a mission to Vanuatu in order to explain its contents around September to October 2019.

7-4. If the contents of the draft Preparatory Survey Report is accepted and the undertakings for the Project are fully agreed by the Vanuatu side, JICA will finalize the Preparatory Survey Report and send it to Vanuatu around 4th quarter of 2019.

7-5. Above schedule is tentative and subject to change.

8. Environmental and Social Considerations

8-1. The Vanuatu side confirmed to give due environmental and social considerations

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before and during implementation, and after completion of the Project, in accordance with the JICA Guidelines for Environmental and Social Considerations (April, 2010).

8-2. The Project is categorized as “B” from the following considerations:

- The project is not considered to be a large-scale hydropower project, and is not located in a sensitive area, and has none of the sensitive characteristics under the JICA guidelines for environmental and social considerations (April 2010), it is not likely to have a significant adverse impact on the environment.

The Vanuatu side confirmed to conduct the necessary procedures concerning the environmental assessment (including stakeholder meetings, Preliminary Environmental Assessments (PEA), Environmental Impact Assessment (EIA) and information disclosure, etc.) and make PEA/EIA report of the Project as required in accordance with environmental rules and regulations in Vanuatu. The EIA approval shall be received from the responsible authorities and submitted to JICA by September 2019 subject to the progress of the study.

8-3. For the Project that will result in involuntary resettlement, the Vanuatu side confirmed to prepare a Resettlement Action Plan (RAP)/Abbreviated Resettlement Action Plan (ARAP) and make it available to the public. In addition, the Vanuatu side confirmed to provide the affected people with sufficient compensation and/or support in accordance with RAP/ARAP, which is consistent with JICA Guidelines for Environmental and Social Considerations (April, 2010), in a timely manner.

9. Other Relevant Issues

9-1. Provision of Conveniences to the Team by the Vanuatu side

The Vanuatu side confirmed to provide the Team with the items mentioned in Chapter 5 of the Inception Report in collaboration with other organizations concerned to the Project.

9-2. Questionnaire

The Vanuatu side shall answer to the Questionnaire submitted by the Team with relevant documents by 30th November, 2018.

9-3. Approval of Entry to private lands

The Vanuatu side explained that approval/consent must be obtained from landowners for study work, and the Team should closely consult with the Vanuatu side with necessary information and enough lead time. The Team agreed on this matter.

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9-4. Securing Lands

Both sides confirmed that securing the land for constructing entire hydro power station, transmission line, and temporary access road should be prerequisite condition for appraisal by the Government of Japan. Both sides agreed to closely share the progress on this matter.

9-5. Necessary social safeguards and gender considerations

The Vanuatu side advised that participation of local community to the Project is highly expected as a part of social safeguards in Vanuatu, and requested the Team to consider promotion of local employment during the implementation in reasonable ways such as labor, housekeeping, cooking. The Vanuatu side also explained that it is preferred that women will be provided employment opportunity and necessary due consideration such as provision of toilet, shower.

9-6. Utilization of Generation Cost Saving

Regarding the utilization of generation cost saving through existing Sarakata hydro power station, the Vanuatu side explained that 1 VUV/kWh for Santo Fund and 2 VUV/kWh for Government Fund are currently added to electricity tariff in Luganville Concession Area, and that 2 VUV/kWh for National Green Energy Fund will be added instead of existing funds from January 2019. The Vanuatu sides also explained that electricity tariff in Luganville is lower than other Concession Areas, due to lower power generation cost.

The Team requested the Vanuatu side to propose adequate way to utilize the saving through the Project based on their energy policy, as the generation cost is expected to be reduced further if the Project is realized. The Team also requested the Vanuatu side to present relevant data and information on invest made under the Funds. The both sides confirmed that the utilization plan shall be agreed by the both sides at the conclusion of the Survey, based on the proposal from the Vanuatu side and the performance of the past funds.

9-7. Supervision on Concessionaire

The Team explained the responsibility of the Executing Agency to maintain and use properly and effectively the facilities constructed under Japanese Grant. For this end, the Vanuatu side shall make necessary measures to ensure proper O&M by the concessionaire.

End

Annex 1 Project Site

Annex 2 Organization Chart

Annex 3 Japanese Grant

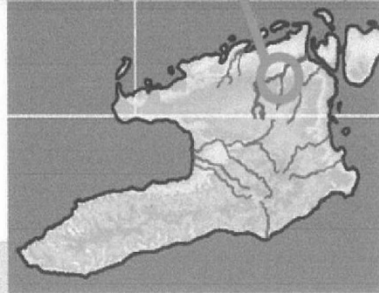
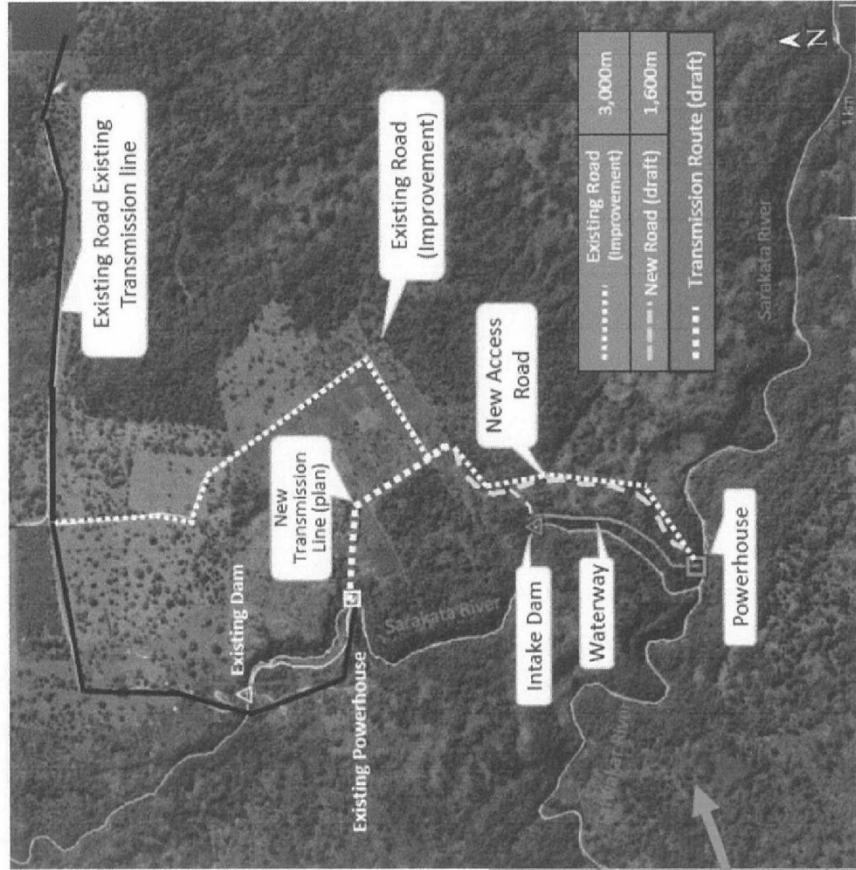
Annex 4 Project Monitoring Report (template)

Annex 5 Major Undertakings to be taken by the Government of Vanuatu



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Annex 1: Project Site

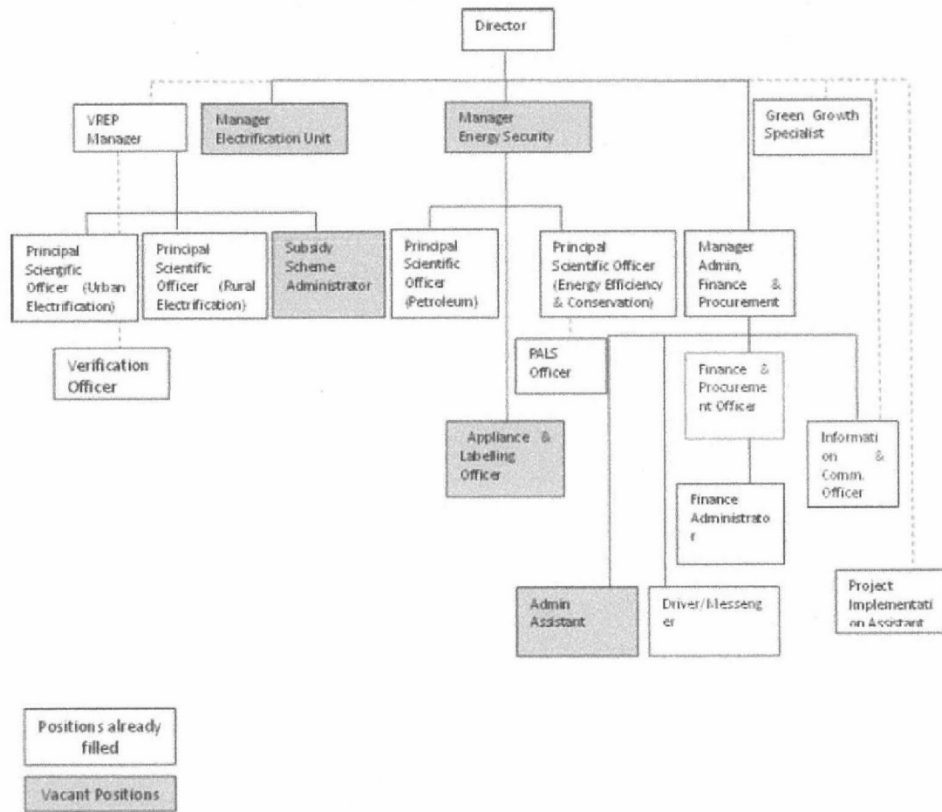


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Annex 2: Organization Chart

Department of Energy (To be updated)



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JAPANESE GRANT

The Japanese Grant is non-reimbursable fund provided to a recipient country (hereinafter referred to as “the Recipient”) to purchase the products and/or services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. Followings are the basic features of the project grants operated by JICA (hereinafter referred to as “Project Grants”).

1. Procedures of Project Grants

Project Grants are conducted through following procedures (See “PROCEDURES OF JAPANESE GRANT” for details):

(1) Preparation

- The Preparatory Survey (hereinafter referred to as “the Survey”) conducted by JICA

(2) Appraisal

- Appraisal by the government of Japan (hereinafter referred to as “GOJ”) and JICA, and Approval by the Japanese Cabinet

(3) Implementation

Exchange of Notes

- The Notes exchanged between the GOJ and the government of the Recipient

Grant Agreement (hereinafter referred to as “the G/A”)

- Agreement concluded between JICA and the Recipient

Banking Arrangement (hereinafter referred to as “the B/A”)

- Opening of bank account by the Recipient in a bank in Japan (hereinafter referred to as "the Bank") to receive the grant

Construction works/procurement

- Implementation of the project (hereinafter referred to as “the Project”) on the basis of the G/A

(4) Ex-post Monitoring and Evaluation

- Monitoring and evaluation at post-implementation stage

2. Preparatory Survey

(1) Contents of the Survey

The aim of the Survey is to provide basic documents necessary for the appraisal of the the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of

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relevant agencies of the Recipient necessary for the implementation of the Project.

- Evaluation of the feasibility of the Project to be implemented under the Japanese Grant from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of an outline design of the Project.
- Estimation of costs of the Project.
- Confirmation of Environmental and Social Considerations

The contents of the original request by the Recipient are not necessarily approved in their initial form. The Outline Design of the Project is confirmed based on the guidelines of the Japanese Grant.

JICA requests the Recipient to take measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the executing agency of the Project. Therefore, the contents of the Project are confirmed by all relevant organizations of the Recipient based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA contracts with (a) consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

JICA reviews the report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the feasibility of the Project.

3. Basic Principles of Project Grants

(1) Implementation Stage

1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as “the E/N”) will be signed between the GOJ and the Government of the Recipient to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Recipient to define the necessary articles, in accordance with the E/N, to implement the Project, such as conditions of disbursement, responsibilities of the Recipient, and procurement conditions. The terms and conditions generally applicable to the Japanese Grant are stipulated in the “General Terms and Conditions for Japanese Grant (January 2016).”

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2) Banking Arrangements (B/A) (See “Financial Flow of Japanese Grant (A/P Type)” for details)

- a) The Recipient shall open an account or shall cause its designated authority to open an account under the name of the Recipient in the Bank, in principle. JICA will disburse the Japanese Grant in Japanese yen for the Recipient to cover the obligations incurred by the Recipient under the verified contracts.
- b) The Japanese Grant will be disbursed when payment requests are submitted by the Bank to JICA under an Authorization to Pay (A/P) issued by the Recipient.

3) Procurement Procedure

The products and/or services necessary for the implementation of the Project shall be procured in accordance with JICA's procurement guidelines as stipulated in the G/A.

4) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the Recipient to continue to work on the Project's implementation after the E/N and G/A.

5) Eligible source country

In using the Japanese Grant disbursed by JICA for the purchase of products and/or services, the eligible source countries of such products and/or services shall be Japan and/or the Recipient. The Japanese Grant may be used for the purchase of the products and/or services of a third country as eligible, if necessary, taking into account the quality, competitiveness and economic rationality of products and/or services necessary for achieving the objective of the Project. However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm, which enter into contracts with the Recipient, are limited to "Japanese nationals", in principle.

6) Contracts and Concurrence by JICA

The Recipient will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be concurred by JICA in order to be verified as eligible for using the Japanese Grant.

7) Monitoring

The Recipient is required to take their initiative to carefully monitor the progress of the Project in order to ensure its smooth implementation as part of their responsibility in the G/A, and to regularly report to JICA about its status by using the Project Monitoring Report (PMR).

8) Safety Measures

The Recipient must ensure that the safety is highly observed during the implementation of the Project.

9) Construction Quality Control Meeting

Construction Quality Control Meeting (hereinafter referred to as the “Meeting”) will be held for quality assurance and smooth implementation of the Works at each stage of the Works. The member of the Meeting will be composed by the

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Recipient (or executing agency), the Consultant, the Contractor and JICA. The functions of the Meeting are as followings:

- a) Sharing information on the objective, concept and conditions of design from the Contractor, before start of construction.
- b) Discussing the issues affecting the Works such as modification of the design, test, inspection, safety control and the Client's obligation, during of construction.

(2) Ex-post Monitoring and Evaluation Stage

- 1) After the project completion, JICA will continue to keep in close contact with the Recipient in order to monitor that the outputs of the Project is used and maintained properly to attain its expected outcomes.
- 2) In principle, JICA will conduct ex-post evaluation of the Project after three years from the completion. It is required for the Recipient to furnish any necessary information as JICA may reasonably request.

(3) Others

1) Environmental and Social Considerations

The Recipient shall carefully consider environmental and social impacts by the Project and must comply with the environmental regulations of the Recipient and JICA Guidelines for Environmental and Social Considerations (April, 2010).

2) Major undertakings to be taken by the Government of the Recipient

For the smooth and proper implementation of the Project, the Recipient is required to undertake necessary measures including land acquisition, and bear an advising commission of the A/P and payment commissions paid to the Bank as agreed with the GOJ and/or JICA. The Government of the Recipient shall ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the Recipient with respect to the purchase of the Products and/or the Services be exempted or be borne by its designated authority without using the Grant and its accrued interest, since the grant fund comes from the Japanese taxpayers.

3) Proper Use

The Recipient is required to maintain and use properly and effectively the products and/or services under the Project (including the facilities constructed and the equipment purchased), to assign staff necessary for this operation and maintenance and to bear all the expenses other than those covered by the Japanese Grant.



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4) Export and Re-export

The products purchased under the Japanese Grant should not be exported or re-exported from the Recipient.

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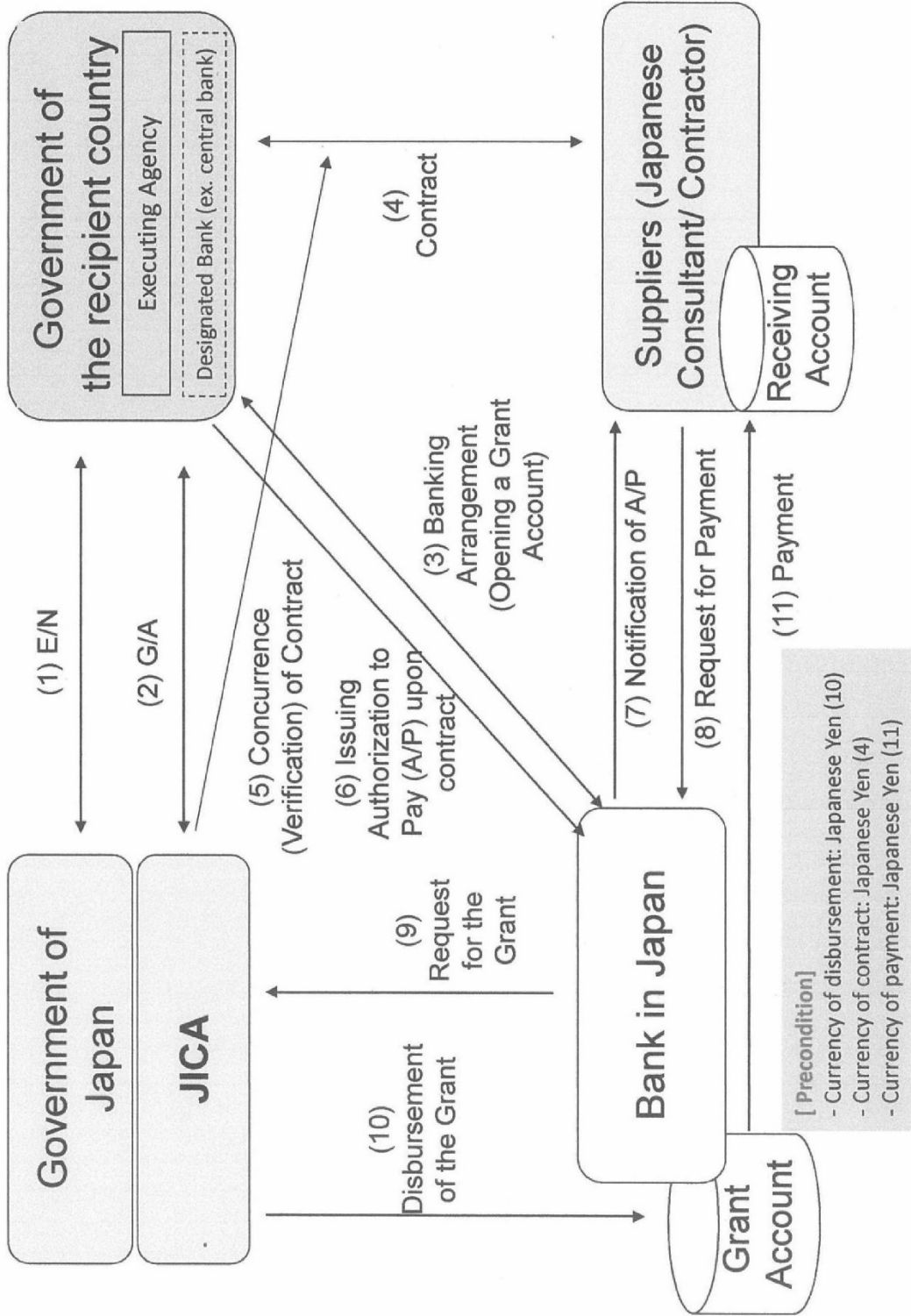
PROCEDURES OF JAPANESE GRANT

Stage	Procedures	Remarks	Recipient Government	Japanese Government	JICA	Consultants	Contractors	Agent Bank
Official Request	Request for grants through diplomatic channel	Request shall be submitted before appraisal stage.	x	x				
1. Preparation	(1) Preparatory Survey Preparation of outline design and cost estimate		x		x	x		
2. Appraisal	(2) Preparatory Survey Explanation of draft outline design, including cost estimate, undertakings, etc.		x		x	x		
	(3) Agreement on conditions for implementation	Conditions will be explained with the draft notes (E/N) and Grant Agreement (G/A) which will be signed before approval by Japanese government.	x	x (E/N)	x (G/A)			
	(4) Approval by the Japanese cabinet			x				
3. Implementation	(5) Exchange of Notes (E/N)		x	x				
	(6) Signing of Grant Agreement (G/A)		x		x			
	(7) Banking Arrangement (B/A)	Need to be informed to JICA.	x					x
	(8) Contracting with consultant and issuance of Authorization to Pay (A/P)	Concurrence by JICA is required	x			x		x
	(9) Detail design (D/D)		x			x		
	(10) Preparation of bidding documents	Concurrence by JICA is required	x			x		
	(11) Bidding	Concurrence by JICA is required	x			x	x	
	(12) Contracting with contractor/supplier and issuance of A/P	Concurrence by JICA is required	x					x
	(13) Construction works/procurement	Concurrence by JICA is required for major modification of design and amendment of contracts.	x			x	x	
(14) Completion certificate		x			x	x		
4. Ex-post monitoring & evaluation	(15) Ex-post monitoring	To be implemented generally after 1, 3, 10 years of completion, subject to change	x		x			
	(16) Ex-post evaluation	To be implemented basically after 3 years of completion	x		x			

notes:

1. Project Monitoring Report and Report for Project Completion shall be submitted to JICA as agreed in the G/A.
2. Concurrence by JICA is required for allocation of grant for remaining amount and/or contingencies as agreed in the G/A.

Financial Flow of Japanese Grant (A/P Type)



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Date:
Ref. No.

JAPAN INTERNATIONAL COOPERATION AGENCY
JICA XXX OFFICE
[Address specified in the Article 5 of the Grant Agreement]

Attention: Chief Representative

Ladies and Gentlemen:

NOTICE CONCERNING PROGRESS OF PROJECT

Reference : Grant Agreement, dated (signed date of the G/A), for (name of the Project)

In accordance to the Article 6 (3) of the Grant Agreement, we would like to report on the progress of the Project up to the following stages:

[Common]

- Preparation of bidding documents - result of detailed design
- Completion of final works under construction/procurement contract

[Construction]

- Monthly progress [Month/Year]

[Procurement of Equipment]

- Shipping/delivery, hand-over (take over) of equipment
- Installation works
- Operational training

- Other _____

Please see the details as per attached Project Monitoring Report (PMR).

Very truly yours,

[Signature]

[Name of the signer]

[Title of the signer]

[Name of the executing agency]

cc:
Director General


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Financial Cooperation Implementation Department
Japan International Cooperation Agency
[Address specified in the Article 5 of the Grant Agreement]

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Project Monitoring Report
on
Project Name
Grant Agreement No. XXXXXXXX
 20XX, Month

Organizational Information

Signer of the G/A (Recipient)	_____ Person in Charge (Designation) _____ Contacts Address: _____ Phone/FAX: _____ Email: _____
Executing Agency	_____ Person in Charge (Designation) _____ Contacts Address: _____ Phone/FAX: _____ Email: _____
Line Ministry	_____ Person in Charge (Designation) _____ Contacts Address: _____ Phone/FAX: _____ Email: _____

General Information:

Project Title	
E/N	Signed date: Duration:
G/A	Signed date: Duration:
Source of Finance	Government of Japan: Not exceeding JPY _____ mil. Government of (_____): _____

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1: Project Description

1-1 Project Objective

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1-2 Project Rationale

- Higher-level objectives to which the project contributes (national/regional/sectoral policies and strategies)
- Situation of the target groups to which the project addresses

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1-3 Indicators for measurement of "Effectiveness"

Quantitative indicators to measure the attainment of project objectives		
Indicators	Original (Yr)	Target (Yr)
Qualitative indicators to measure the attainment of project objectives		

2: Details of the Project

2-1 Location

Components	Original <i>(proposed in the outline design)</i>	Actual
1.		

2-2 Scope of the work

Components	Original* <i>(proposed in the outline design)</i>	Actual*
1.		

Reasons for modification of scope (if any).

(PMR)

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2-3 Implementation Schedule

Items	Original		Actual
	<i>(proposed in the outline design)</i>	<i>(at the time of signing the Grant Agreement)</i>	

Reasons for any changes of the schedule, and their effects on the project (if any)

--

2-4 Obligations by the Recipient

2-4-1 Progress of Specific Obligations

See Attachment 2.

2-4-2 Activities

See Attachment 3.

2-4-3 Report on RD

See Attachment 11.

2-5 Project Cost

2-5-1 Cost borne by the Grant(Confidential until the Bidding)

Components			Cost (Million Yen)	
	Original <i>(proposed in the outline design)</i>	Actual <i>(in case of any modification)</i>	Original ^{1),2)} <i>(proposed in the outline design)</i>	Actual
1.				
Total				

Note: 1) Date of estimation:
 2) Exchange rate: 1 US Dollar = Yen

2-5-2 Cost borne by the Recipient

Components			Cost (1,000 Taka)	
	Original <i>(proposed in the outline design)</i>	Actual <i>(in case of any modification)</i>	Original ^{1),2)} <i>(proposed in the outline design)</i>	Actual
1.				

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- Note: 1) Date of estimation:
2) Exchange rate: 1 US Dollar =

Reasons for the remarkable gaps between the original and actual cost, and the countermeasures (if any)

(PMR)

2-6 Executing Agency

- Organization's role, financial position, capacity, cost recovery etc,
- Organization Chart including the unit in charge of the implementation and number of employees.

Original (at the time of outline design) name: role: financial situation: institutional and organizational arrangement (organogram): human resources (number and ability of staff):
Actual (PMR)

2-7 Environmental and Social Impacts

- The results of environmental monitoring based on Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- The results of social monitoring based on in Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- Disclosed information related to results of environmental and social monitoring to local stakeholders (whenever applicable).

3: Operation and Maintenance (O&M)

3-1 Physical Arrangement

- Plan for O&M (number and skills of the staff in the responsible division or section, availability of manuals and guidelines, availability of spareparts, etc.)

Original (at the time of outline design)
Actual (PMR)

3-2 Budgetary Arrangement

- Required O&M cost and actual budget allocation for O&M

Original (at the time of outline design)

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Actual (PMR)

4: Potential Risks and Mitigation Measures

- Potential risks which may affect the project implementation, attainment of objectives, sustainability
- Mitigation measures corresponding to the potential risks

Assessment of Potential Risks (at the time of outline design)

Potential Risks	Assessment
1. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:
	Contingency Plan (if applicable):
2. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:
	Contingency Plan (if applicable):
3. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:

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	Contingency Plan (if applicable):
Actual Situation and Countermeasures	
(PMR)	

5: Evaluation and Monitoring Plan (after the work completion)

5-1 Overall evaluation

Please describe your overall evaluation on the project.

5-2 Lessons Learnt and Recommendations

Please raise any lessons learned from the project experience, which might be valuable for the future assistance or similar type of projects, as well as any recommendations, which might be beneficial for better realization of the project effect, impact and assurance of sustainability.

5-3 Monitoring Plan of the Indicators for Post-Evaluation

Please describe monitoring methods, section(s)/department(s) in charge of monitoring, frequency, the term to monitor the indicators stipulated in 1-3.

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Attachment

1. Project Location Map
 2. Specific obligations of the Recipient which will not be funded with the Grant
 3. Monthly Report submitted by the Consultant
- Appendix - Photocopy of Contractor's Progress Report (if any)
- Consultant Member List
 - Contractor's Main Staff List
4. Check list for the Contract (including Record of Amendment of the Contract/Agreement and Schedule of Payment)
 5. Environmental Monitoring Form / Social Monitoring Form
 6. Monitoring sheet on price of specified materials (Quarterly)
 7. Report on Proportion of Procurement (Recipient Country, Japan and Third Countries) (PMR (final) only)
 8. Pictures (by JPEG style by CD-R) (PMR (final) only)
 9. Equipment List (PMR (final) only)
 10. Drawing (PMR (final) only)
 11. Report on RD (After project)

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Monitoring sheet on price of specified materials

1. Initial Conditions (Confirmed)

Items of Specified Materials	Initial Volume A	Initial Unit Price (¥) B	Initial total Price C=A×B	1% of Contract Price D	Condition of payment Price (Decreased) E=C+D	Price (Increased) F=C+D
Item 1	●●● t	●	●	●	●	●
Item 2	●●● t	●	●	●		
Item 3						
Item 4						
Item 5						

2. Monitoring of the Unit Price of Specified Materials

(1) Method of Monitoring : ●●

(2) Result of the Monitoring Survey on Unit Price for each specified materials

Items of Specified Materials	1st month, 2015	2nd month, 2015	3rd month, 2015	4th	5th	6th
Item 1	●	●	●			
Item 2						
Item 3						
Item 4						
Item 5						

(3) Summary of Discussion with Contractor (if necessary)

Report on Proportion of Procurement (Recipient Country, Japan and Third Countries)
 (Actual Expenditure by Construction and Equipment each)

	Domestic Procurement (Recipient Country) A	Foreign Procurement (Japan) B	Foreign Procurement (Third Countries) C	Total D
Construction Cost	(A/D%)	(B/D%)	(C/D%)	
Direct Construction Cost	(A/D%)	(B/D%)	(C/D%)	
others	(A/D%)	(B/D%)	(C/D%)	
Equipment Cost	(A/D%)	(B/D%)	(C/D%)	
Design and Supervision Cost	(A/D%)	(B/D%)	(C/D%)	
Total	(A/D%)	(B/D%)	(C/D%)	

Major Undertakings to be taken by the Government of Vanuatu

1. Specific obligations of the Government of Vanuatu which will not be funded with the Grant

(1) Before the Tender

NO	Items	Deadline	In charge	Estimated Cost	Ref.
1	To open bank account (B/A)	within 1 month after the signing of the G/A	DOE/MFEM		
2	To issue A/P to a bank in Japan (the Agent Bank) for the payment to the consultant	within 1 month after the signing of the contract(s)	DOE		
3	To approve EIA (Conditions of approval should be fulfilled, if any) and secure the necessary budget for implementation.	within 1 month after the signing of the G/A	DEPC		
4	To secure the necessary budget and implement land acquisition and resettlement if any (including preparation of resettlement sites), and compensation with full replacement cost in accordance with RAP	before notice of the bidding document(s)	DOE/DOL		
5	To implement social monitoring, and to submit the monitoring results to JICA, by using the monitoring form, on a quarterly basis as a part of Project Monitoring Report	till land acquisition and resettlement complete	DOE		
6	To secure and clear the following lands 1) project sites for weir, headrace, head tank, penstock, power house building and other facilities necessary for construction of hydropower station. 2) project sites for transmission line 3) temporary construction yard and stock yard near the Project area 4) access road to the project sites	before notice of the bidding document(s)	DOE		
7	To obtain the planning, zoning, building permit	before notice of the bidding document(s)	DOE		
8	To submit Project Monitoring Report (with the result of Detail Design)	before preparation of bidding document(s)	DOE		

(2) During the Project Implementation

NO	Items	Deadline	In charge	Estimated Cost	Ref.
----	-------	----------	-----------	----------------	------

1	To issue A/P to a bank in Japan (the Agent Bank) for the payment to the Supplier(s)	within 1 month after the signing of the contract(s)	DOE/ MFEM		
2	To bear the following commissions to a bank in Japan for the banking services based upon the B/A				
	1) Advising commission of A/P	within 1 month after the signing of the contract(s)	DOE/ MFEM		
	2) Payment commission for A/P	every payment	DOE/ MFEM		
3	to ensure prompt unloading and customs clearance at ports of disembarkation in the country of the Recipient and to assist the Supplier(s) with internal transportation therein	during the Project	DOE		
4	To accord Japanese physical persons and/or physical persons of third countries whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the country of the Recipient and stay therein for the performance of their work	during the Project	DOE		
5	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the country of the Recipient with respect to the purchase of the products and/or the services be exempted	during the Project	DOE		
6	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project	during the Project	DOE		
7	1) To submit Project Monitoring Report	every month	DOE		
	2) To submit Project Monitoring Report (final)	within one month after signing of Certificate of Completion for the works under the contract(s)	DOE		
8	To submit a report concerning completion of the Project	within six months after completion of the Project	DOE		
9	To take necessary measure for safety construction - traffic control - rope off	during the construction			
10	To implement Environment Management Plan (EMP) and Environment Monitoring Plan (EMoP)	during the construction	DOE/ DEPC		
11	To submit results of environmental monitoring to JICA, by using the monitoring form, on a quarterly basis as a part of Project Monitoring Report	during the construction	DOE		
12	To implement Resettlement Action Plan (RAP) (livelihood restoration program, if needed)	for a period based on livelihood restoration program	DOE		

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13	To implement social monitoring, and to submit the monitoring results to JICA, by using the monitoring form, on a quarterly basis as a part of Project Monitoring Report - Period of the monitoring may be extended if affected persons' livelihoods are not sufficiently restored. Extension of the monitoring will be decided based on agreement between DOE and JICA.	- until the end of livelihood restoration program (In case that livelihood restoration program is provided) - for two years after land acquisition and resettlement complete (In case that livelihood restoration program is not provided)	DOE		
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(3) After the Project

NO	Items	Deadline	In charge	Estimated Cost	Ref.
1	To implement EMP and EMoP	for a period based on EMP and EMoP	DOE		
2	To submit results of environmental monitoring to JICA, by using the monitoring form, semiannually - The period of environmental monitoring may be extended if any significant negative impacts on the environment are found. The extension of environmental monitoring will be decided based on the agreement between DOE and JICA.	for three years after the Project	DOE		
3	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant. - In case O&M of the facilities and equipment will be entrusted to a private concessionaire, DOE shall make necessary arrangement to ensure; 1) Allocation of maintenance cost 2) Adequate operation and maintenance structure 3) Routine check/Periodic inspection	After completion of the construction	DOE/URA		
4	To make necessary arrangement to utilize the financial benefit derived from the facilities constructed and equipment provided under the Grant for the public interest.	After completion of the construction	DOE		

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2. Other obligations of the Government of Vanuatu funded with the Grant

NO	Items	Deadline	Amount (Million Japanese Yen)*
1	To construct hydropower station		/
2	To construct transmission line		
3	To implement detailed design, bidding support and construction supervision (Consulting Service)		/
4	To prepare temporary access road		/
5	Contingencies		/
	Total		/
			/

* The Amount is provisional. This is subject to the approval of the Government of Japan.

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