

添付資料

資料-1 調査団員・氏名

添付資料 1 調査団員リスト

氏名	担当分野	所属等
JICA 団員		
舘山 丈太郎	総括	社会基盤・平和構築部 計画・調整課 兼 運輸交通・情報通信グループ第一チーム
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南部 尚昭	業務主任／放送事業計画	八千代エンジニアリング株式会社
寺林 克哉	副業務主任／伝送回路設計	八千代エンジニアリング株式会社
高橋 泰雄	プラットフォーム事業計画	補強（個人）
山本 福義	送信・中継機材計画	補強（株式会社 GHL ウェーブ）
新田 修	中継局設備①（送信アンテナ）	補強（個人）
小川 雄久	中継局設備②（鉄塔・局舎）	補強（個人）
池田 好孝	機材調達計画	八千代エンジニアリング株式会社
大浦 寿	環境社会配慮	八千代エンジニアリング株式会社
濱中 聡年	電波伝搬シミュレーション	補強（株式会社日本デジタル放送システムズ）
藤原 慧矢	スタジオ機材計画（NOC 機材）	八千代エンジニアリング株式会社
内海 恵子	財務分析	八千代エンジニアリング株式会社

資料-2 調査工程

第二次現地調査（2016/2/29～2016/3/1）

No.	月日 曜日		コンサルタント			宿泊地
			業務主任/放送事業計画	機材調達計画	電波伝搬シミュレーション	
			南部 尚昭	池田 好孝	濱中 聡年	
			16日	16日	16日	
1	2016/2/29	月	・移動[東京(11:05, SQ637)ーシンガポール(17:45/20:35, SQ452)ーマレ(22:10)]			Male
2	2016/3/1	火	・協議(CAM, PSM) ・協議(ELS & AMIN International Pvt. Ltd)			Male
3	2016/3/2	水	・ピリンギリ調査 ・協議(CAM, PSM)			Male
4	2016/3/3	木	・協議(Energy Consultancy Pvt. Ltd) ・マレ発 ・ヒタドゥ調査			Site
5	2016/3/4	金	マレ着			Male
6	2016/3/5	土	・マレ発 ・グライドゥ調査			Site
7	2016/3/6	日	・ガン調査 ・マレ着			Male
8	2016/3/7	月	・協議(CAM, PSM)			Male
9	2016/3/8	火	・協議(CAM, PSM)			Male
10	2016/3/9	水	・協議(CAM, PSM) ・DTTBセミナー準備			Male
11	2016/3/10	木	・協議(CAM, PSM) ・DTTBセミナー準備			Male
12	2016/3/11	金	国内協議			Male
13	2016/3/12	土	国内協議			Male
14	2016/3/13	日	DTTBセミナー			Male
15	2016/3/14	月	・移動[マレ(12:55, SQ5481)ーシンガポール(20:45)]			Over night flight
16	2016/3/15	火	・移動→[23:55, SQ638]ー[東京(07:30)]			

第三次現地調査（2016/6/9～2016/6/18）

No.	月日	曜日	JICA団員		調査団員			宿泊地
			総括	①	③	④		
				業務主任/放送事業計画	副業務主任/ 伝送回路設計	電波伝搬シミュレーション		
10日	10日	10日						
1	2016/6/9	木		・移動【ヤンゴン (10:35),SQ997→シンガ ポール(15:10/20:45)→ マレ(22:10),SQ452】	・移動【成田(11:20),UL445→コロンボ(17:10/18:55) →マレ(19:50),UL103】			コロンボ
2	2016/6/10	金			・環境社会配慮打合せ ・地盤、地形調査打合せ			マレ
3	2016/6/11	土			・団内協議			マレ
4	2016/6/12	日			・JICAモルディブ支所との打合せ ・内務省/通信庁表敬、DF/R説明協議 ・公共放送局DF/R説明協議			マレ
5	2016/6/13	月			・内務省/通信庁、公共放送局とのM/D協議			マレ
6	2016/6/14	火			・内務省/通信庁、公共放送局とのM/D協議			マレ
7	2016/6/15	水			・内務省/通信庁、公共放送局とのM/D署名			マレ
8	2016/6/16	木			・移動【マレ(15:30), UL116→コロンボ(17:25)】			コロンボ
9	2016/6/17	金			・在スリランカ大使館報告 ・JICAスリランカ事務所報告 ・移動【コロンボ(19:15, UL454)→			機中
10	2016/6/18	土		・移動【コロンボ (01:10),SQ469→シンガ ポール(07:40/11:00)→ ヤンゴン(14:55),SQ5010】	・移動【→成田(07:35),UL454】			

資料-3 関係者（面会者）リスト

添付資料 3 関係者（面会者）リスト

氏名	職位
在スリランカ日本国大使館	
菅沼 健一	特命全権大使
岡井 朝子	公使
伊藤 靖晃	二等書記官
JICA スリランカ事務所	
日高 弘	次長
島野 敏行	所員
JICA モルディブ支所	
斎藤 博	支所長
モルディブ通信庁（CAM: Communication Authority Development）	
Ilas Ahmed	Chief Executive
Abdullah Shiham	Deputy Director General
公共放送局（PSM: Public Service Media）	
Hussain Shuhad	Director - Infrastructure Planning & Development
Ibrahim Khaleel	Managing Director
Hassan Amir	Managing Engineer
モルディブ外務省	
Aishath Azeema	Joint Secretary
Mohamed Shaffau Iblahim	Senior Desk Officer
内務省	
Ahmed Adeem	Deputy Minister
モルディブ放送委員会	
Mohamed Shahyb	President
Ibrahim Ashraf	Commissioner
Noora Ali	Secretary General
Ahmed Arshad Ali	International Relations Officer
気象局	
Ali Shareef	Deputy Director General Meteorology
Abdulla Muaz	Meteorological Engineer
Dhiragu	
Fathmath Shoozee	Assistant Manager Legal & Regulatory
Abdulla Firg	Manager Access Engineering
Oredoo	
Hussain Haleem	Senior Engineer Power System
Mohamed Ibrahim	Manager Radio Network
DhiTV	
Midhath Adam	Chief Executive Officer
VTV	
Ahmed Irshan	Chief Technical Officer
Mohamed Zaheen	Director General(Technical Operation)
Mohamed Asif	Chief Operating Officer V- Media
Ahmed Umar	Director General
Raajje TV	
Ahmed Saleem	Managing Director
Ismail Jinah	Chief Technical Officer
Ibrahim Waheed	Deputy Chief Executive Officer
Sun TV	
Sinaan Ali	Chief Executive Officer
Sungu TV	

氏名	職位
Abdulla Yamin Rasheed	Chairman
Ibrahim Waheed	Managing Director
Channel 13	
Mohamad Saizan	COO
Mohamed Niyaz	Station Manager
MBC	
Mohamed Shahyb	President
Mohamed Aslam	Vice President
Hassan Nabaah	Commissioner
Mohamed Nasih	Secretary General

資料-4 フィールドレポート

**PREPARATORY SURVEY (FOR OUTLINE DESIGN)
ON
THE PROJECT
FOR
THE DIGITAL TERRESTRIAL TELEVISION BROADCASTING NETWORK
DEVELOPMENT PROJECT
IN
THE REPUBLIC OF MALDIVES**

FIELD REPORT

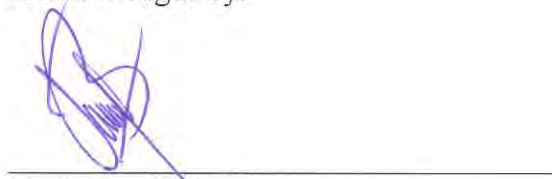
4th November, 2015

Prepared and Submitted by:



Naoaki Nambu
Chief Consultant
JICA Study Team
(Yachiyo Engineering Co., Ltd.)

Acknowledged by:



Mr. Ibrahim Khaleel
Managing Director
Public Service Media (PSM)



Mr. Iliyas Ahmed
Chief Executive
Communications Authority of Maldives (CAM)

**JICA STUDY TEAM
(Yachiyo Engineering Co., Ltd.)**

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Annex 1 : Drawing of conceptual diagram of the system design (DTTB Network)
: Drawing of conceptual diagram of the system design (NOC)

1. Introduction

This Field Report is to establish mutual understandings between JICA Study Team (hereinafter referred to as “the Team”) for the Project for the Digital Terrestrial Television Broadcasting Network Development (hereinafter referred to as “the Project”) and the Maldives such as Public Service Media (hereinafter referred to as “PSM”) and Communications Authority of Maldives (hereinafter referred to as “CAM”) and relevant organizations of the Government of Maldives on the policies, finance and technical aspects for the Project. This has been also prepared by the Team based on the results of the 1st field survey and discussions with the Maldives side.

It is also noted that all the information as described in this report will be decided after further studies in Japan and consultations with JICA and relevant organizations of the Government of Japan. JICA will submit the draft final report, which describes the final component of the Project, to the Maldives side in July 2016 as stated in the Minutes of Discussions (M/D) signed by both parties on 8th October 2015.



2. Item agreed and confirmed with PSM during the 1st Field Survey

2-1 Policies

(1) Coverage

The service coverage of Digital Terrestrial Television Broadcasting (hereinafter referred to as "DTTB") platform developed by the Project will be entire population in the country not only inhabitant islands but also industry and resort islands. It was discussed with CAM and PSM that the first priority is given to development the service coverage to spread through as much as a wide area in considering the scope of the Grant Aid project. Proposed channel plan is confirmed, thus the Team uses the channel plan for the outline design and estimation of the budget of the Grant Aid project.

(2) ASO and DSO

It was discussed that Analogue switch off (hereinafter referred to as "ASO") is remained to take place in 2020 according to the national digital roadmap. Simultaneous broadcasting services will be conducted ASO criteria will be determined with appropriate indicators such as population coverage and receivers' penetration. Also, the areas which are able to receive current analogue should be considered.

The Maldives side expected that DSO take place from the digital transmitting stations that have completed the installation of the digital transmitter.

(3) Implementation Schedule

The Maldives side desired that the Grant Aid project completes by the end of 2017 and would like ASO to take place in 2020.

Two schedules are prepared. One is based on the request from the Maldives side as it completes by the end of 2017 and the other is prepared by the Team. Those schedules are shown in Chapter 8, "Implementation Schedule of the Project (Tentative)". Further studies and discussions are required to finalize the schedule to examine feasibility as well as to incorporate the request by the Maldives side.

(4) Eligible broadcaster on DTTB

Method of selection of applications to DTTB should be determined by Maldives side such as proposal evaluation, auction and priority to the current broadcasters.

(5) Multiplex service

It was agreed that 2 HDs and 2 SDs and 1 data broadcasting and one-seg services are multiplexed into one frequency, and DBNO starts digital broadcasting with two frequencies. Also, the policy that is 3 HDs

multiplexing with one data broadcasting and one-seg services are secured in the outline designed for future. The Team incorporates such the policy for outline designs if necessary.

(6) Analogue Frequency Termination

Encouragement to the broadcasters to release the frequencies in operations currently in order to migrate smoothly will be managed by MBC and CAM.

(7) Frequency allocation

20 frequencies (4 frequencies 1 set, 5 sets are needed in 26 sets) are required for operation of DBNO, Maldives side reserve CH 21 to CH 40. Also 3 frequencies in 5 GHz band with 30 MHz band width are assigned for microwave links in case the Project takes land line link between network operation centre of DBNO and transmitting stations for programme transmission. Those frequency fees of microwaves will be considered free of charges to DBNO by Maldives side.

2-2 Regulations

The following amendments to the broadcasting regulations realized Maldives side and it was discussed that those amendments would be preconditions to the formulation of the Grant Aid project. CAM and PSM will further corroborate with the Maldives Broadcasting Commission (hereinafter referred to as "MBC") and the Team will confirm them by the Draft Final Report which is scheduled in the next March, 2016 tentatively.

(1) Definition of DBNO and its scope of work

The current broadcasting regulation says none of the broadcaster are registered as re-broadcaster, however DBNO is obviously re-broadcaster. Thus, definition of DBNO is necessary. Also as scope of the works of DBNO, aggregation of contents, multiplexing of contents, transmission of contents, EPG operation, EWBS operation so on should be indicated. Eligible multiplexing operator of terrestrial should be considered.

(2) Consideration of License to Broadcaster

There are two classifications such as broadcaster and re-broadcaster under Broadcasting Act in Maldives. DBNO might be identified as a new type of re-broadcaster, however broadcasters who are registered as the Broadcaster under the Act are needed to be defined either contents provider or new type of broadcaster.

(3) Frequency License Fee Reform

Regional based license fee will be considered to secure efficient frequency assignments to reform from the current system such as national license.

(4) Suspension of frequency license for DVB-T/DVB-T2 standard

JICA Study team requested that the frequencies given to those broadcasting stations operating DVB-T/DVB-T2 standards be used for DBNO transmitters in order to secure enough frequencies for DBNO as well as to prevent viewers from being confused.

2-3 **Techniques**

(1) Technical Standards

The draft technical standards supported Japanese side for its preparation should be finalized in accordance with certain timeline and Maldives side make an announcement through the nominal protocol within the government.

(2) Backup power at sites

The Maldives side requested to install the backup generators at transmitters' sites in consideration with local energy situation. However, through the analysis with local information provided by PSM, UPS which has capacity up to 2 hours works on the situation. Thus, the Team considers providing UPSs with appropriate specifications.

(3) ISDB-T test transmitter installed in PSM

The test ISDB-T transmitter installed in PSM is agreed to be used as spear transmitter for DBNO

(4) DVB-T transmitters from private broadcasting stations

Three private broadcasting stations, VTV, DhiTV and Atoll TV, are currently broadcasting with DVB-T/DVB-T2 digital transmitters. Two of them are agreed to join DBNO for their digital broadcasting services. Their digital transmitters, PA parts, are used as spear parts of DBNO broadcasting network. The rest of the broadcaster will be confirmed by Maldives side by the end of 2015 and Maldives side will report to the Team.

(5) Interface of private broadcasting stations with NOC

The signal is received with Transport Stream (hereinafter referred to as "TS") format at NOC from each private broadcasting station. For that, equipment such as encoders and multiplexers are required to be installed in the private broadcasting stations. It is examined whether those sets of equipment are included into the scope of the Japanese Grant project with taking the financial capacity of private broadcasting stations into account. PSM will confirm types of interface between the private broadcasting stations who will join the platform by the end of 2015.

(6) Backup power for NOC

It was discussed with PSM that backup power in a form of UPS or generator for NOC will be provided by PSM.

(7) Conceptual diagram of the system design

The conceptual diagram of the system design for DTTB Network and NOC is as par Annex 1. The diagram will be modified based on the estimation of the budget of the Grant Aid.



3. Result of Site Survey

The site survey has been conducted between 15th and 20th October. In total 21 sites are visited by three teams to investigate the technical feasibility of constructing digital transmitting stations and environmental and social considerations.

The technical, social and environmental issues are investigated to examine the feasibility of establishing digital transmitting stations. It was found that in the following sites land acquisition is required due to the reasons that there is not enough land in the existing site or the site itself is new. The discussion was held with the islands councils during the sites survey and they were agreed that the proposed new lands are available for the Project. PSM is officially confirming the availabilities of lands with the islands councils, the Ministry of Housing and Infrastructure. The official answer will be reported to the Team by the end of this year.

Also the heights of antennas are under examination with the civil aviation authority whether it might disrupt air routes and approaching routes of the airports and complies with regulations.

Table 3. List of site for land acquisition or extension

No	Name of Site	Purpose of Use	Reasons for the Acquisition
1	Kulhudhufushi	Digital Transmitting Stations	There is not enough area within the premise of existing site for the construction of a new tower.
2	Funadhoo	Digital Transmitting Stations	A new school is under construction next to the existing site and there is not enough area within the existing site.
3	Manadhoo	Digital Transmitting Stations	There is not enough area within the existing site to construct 80m tower. The extension of land is required.
4	Naifaru	Digital Transmitting Stations	There is not enough area within the existing site to construct 80m tower. The extension of land is required.
5	Male (Vilingili)	Digital Transmitting Stations	According to the policy of the government, a new tower is not able to be built in Male and moved to surrounding islands. Therefore a new land is proposed in Vilingili island next to Male.
6	Maafushi	Microwave Relay Stations	PSM does not have a land in this island. However microwave link station is required for transmitting signal to Felidhoo.

No	Name of Site	Purpose of Use	Reasons for the Acquisition
7	Dhangethi	Digital Transmitting Stations	PSM does not have a land in this island. However, the optical fiber network from Male is available. By using the optical fiber network, it is possible to build cost-efficient and reliable broadcasting transmission network.
8	Feeali	Microwave Relay Stations	PSM does not have a land. However, microwave relay station is required because distance between Dhangeti and Nilandhoo is 120km.
9	Gan	Digital Transmitting Stations	PSM does not have a land. However, optical fiber network is available and it is possible to cover Laam atoll from the island.
10	Gadhdhoo	Digital Transmitting Stations	PSM does not have a land. However optical fiber network is available and the island has the base for telecommunication company for Gaau Dhaal and Gaafu Alifu atoll so that it is easy to establish a reliable broadcasting transmission network.
11	Fiyoari	Microwave Relay Stations	Microwave relay station is required to transmit signal from Gadhdhoo to Thinadhoo. In order to construct 60m tower, the extension of land is reqried.
12	Thinadhoo	Digital Transmitting Stations	There is a media center with in the existing site so that there is not enough area to construct a new tower. A new land is required.
13	Viligili	Digital Transmitting Stations	Civil aviation authority requested to move the tower from the existing site because it is in the approach surface of the airport.

4. Scope of Project

The application for Grant Aid for the Project was submitted in 18th February 2015 from the CAM/ Ministry of Home and Affairs with the overall goal is to migrate to digital broadcasting and three project purposes below;

- 1) To build a national-wide digital terrestrial television broadcasting network and migrate to digital broadcasting
- 2) To get all broadcasters to share a common transmission network
- 3) To have as system for early warnings and emergency communication for the better mitigation of disasters

Project purpose has been reviewed as “To improve access to information of the national and resolve regional disparities on information through development of a digital terrestrial television network, thereby contributing to migrating vulnerability an further social and economic development” and Output as “To establish digital terrestrial television broadcasting network” as per M/D

Overall goal and indicators for evaluation of the Project are under examination. Those will be reviewed and presented to the Maldives side to agree on before the submission of the draft final report.

There have been some updates from the initial application. The implementing agency was changed from CAM/ Ministry of Home Affairs to PSM for the decision of DBNO placed in PSM. The application was submitted without the quantity information of facilities and equipment however the number of them were decided during this preparatory survey. Soft components were also included in the application. Technical cooperation project are now under consideration instead of soft components requested initially for the capacity building.

The differences between previous scope and present one are shown in table 4.

Table 4. Proposed Scope of the Project by the Recipient Country

	Initial Application (18 th Feb 2015)		Now
Implementing Agency	CAM		PSM
Overall Goal	To migrate to digital broadcasting		Addition of three indicators
Locations	20 islands in the Maldives		21 islands
Items (Quantity)	Facilities	Antenna Tower	90m Antenna Tower (1 set)
			80m Antenna Tower (7 set)
			70m Antenna Tower (5 set)
			60m Antenna Tower (3 set)
			50m Antenna Tower (3 set)

	Initial Application (18 th Feb 2015)	Now	
		30m Antenna Tower (1 set)	
		20m Antenna Tower (1 set)	
		Transmitting Houses -Air Conditioner -Power Supply	Transmitting Station Building (18 sets) Relay Station Building (2 sets) Renovation of relay station building (1 set)
		Equipment	200W Transmitting System (6 sets) 100W Transmitting System (4 sets) 50W Transmitting System (4 sets) 20W Transmitting System (2 set) 10W Transmitting System(2 set) Repair of the Transmitting System (2 sets)
		NOC Equipment	NOC Equipment (1 set)
		EWBS Server	EWBS Server (1 set)
		Link System (Microwave)	Link System (Microwave) (1 set)
		Link System (Optical Fiber)	Link System (Optical Fiber) (TBD)
		-	Spare parts (1 lot)
		-	Consumable parts (1 lot)
		-	Installation Materials (1 lot)
	Soft Components	Capacity building for the project including training and development of engineers and technicians	Technical Cooperation Project is now under consideration. The following activities will be considered. -EWBS pilot project operation -Data broadcasting production -Call centre operation in consideration with receivers' penetration

5. Result of the Other Studies

5-1 Frequency Allocation

It was discussed with CAM that total 20 channels between Ch 21 and 40 will be secured for digital terrestrial television broadcasting.

5-2 Channel Plan

Channel Plan was proposed for the 26 digital broadcasting stations to cover the whole population including 18 digital transmitting stations and 3 microwave link stations procured by the Japanese Grant project if the scope was decided as same as assumption and 8 digital broadcasting stations procured by PSM. For the future of the operation, the channel plan was made based on the operation with four frequencies. For the Grant aid project of initial operation of DBNO, only 2 frequencies are used for each digital broadcasting station.

Channel Plan is still under development to be fixed with examining the interference with other stations. It is still subject to change according to the result of interference examination.

Table 5-1 Channel Plan

No	Atoll	Islands (Position)	Tower and Antenna				Broadcast Wave	
			Tower Height (m)	Antenn a Height (m)	Micro Antenna Height (Upper, m)	Micro Antenna Height (Down, m)	Frequency,Ch (Future use for four BTSs)	TX Power (W)
1	HAA ALIF U	Dhidhdhoo	60	+2	-	-	28,29,(30,31)	200
2	HAA DHH	Kulhudhufushi	50	+2	-	-	32,33, (21,22)	100
3	ALU	Kanditeem	60	+2	-2	-12	34,35, (23,24)	100
4	SHAV IYANI	Funadhoo	70	+2	-2	-12	36,37, (25,26)	100
5	NOO NU	Manadhoo	70	+2	-2	-12	34,35, (23,24)	10
6	RAA	Ungoofaaru	70	+2	-2	-12	38,39, (27,40)	100
7	BAA	Eydhafushi	70	+2	-2	-12	28,29, (30,31)	50
8	LHAV IYANI	Naifaru	80	+2	-2	-12	36,37, (25,26)	200
9		Kaashidhoo	50	+2	-	-	34,35, (23,24)	100
10	KA AF U	Male' (Vilingli)	60	+2	-2	-12	32,33, (21,22)	200
11		Maafushi	90	-	-2	-12	-	R
12	VA AV U	Felidhoo	80	+2	-2	-12	36,37,(25,26)	50

No	Atoll	Islands (Position)	Tower and Antenna				Broadcast Wave	
			Tower Height (m)	Antenn a Height (m)	Micro Antenna Height (Upper, m)	Micro Antenna Height (Down, m)	Frequency,Ch (Future use for four BTSs)	TX Power (W)
13	ALIF	Himendhoo	70	+2	-2	-12	38,39,(27,40)	10
14	U ALIF U	Rasdhoo	70	+2	-2	-12	36,37,(25,26)	20
15	MEE	Dhigaaru	30	+2	-	-	38,39,(27,40)	50
16	MU	Muli	40	+2			36,37,(25,26)	50
17	ALIF U DHA ALU	Dhangethi	70	+2	-2	-12	34,35,(23,24)	200
18	FAAF	Fecali	80	-	-2	-12	-	R
19	U	Nilandhoo	50	+2	-2	-12	36,37,(25,26)	100
20	DHA ALU	Hulhudheli	30	+2	-	-	28,29,(30,31)	50
21	LAA MU	Gan	80	+2	-2	-12	34,35,(23,24)	50
22	THAA	Guraidhoo	80	+2	-2	-12	38,39,(27,40)	50
23		Thimarafushi	50	+2	-	-	36,37,(25,26)	50
24	GAAF U DHA ALU	Gadhdhoo	80	+2	-2	-12	32,33,(21,22)	200
25		Fiyoari	60	-	-2	-12	-	R
26		Thinadhoo	50	+2	-2	-12	28,29,(30,31)	200
27	GAAF U ALIF U	Viligili	80	+2	-2	-12	38,39,(27,40)	20
28	GNAV IYANI	Foammulah	20	+2	-	-	34,35,(23,24)	10
29	SEEN U	Hithadhoo	30	+2	-	-	36,37,(25,26)	20

Result of the coverage simulation is shown in Figure 5-1.

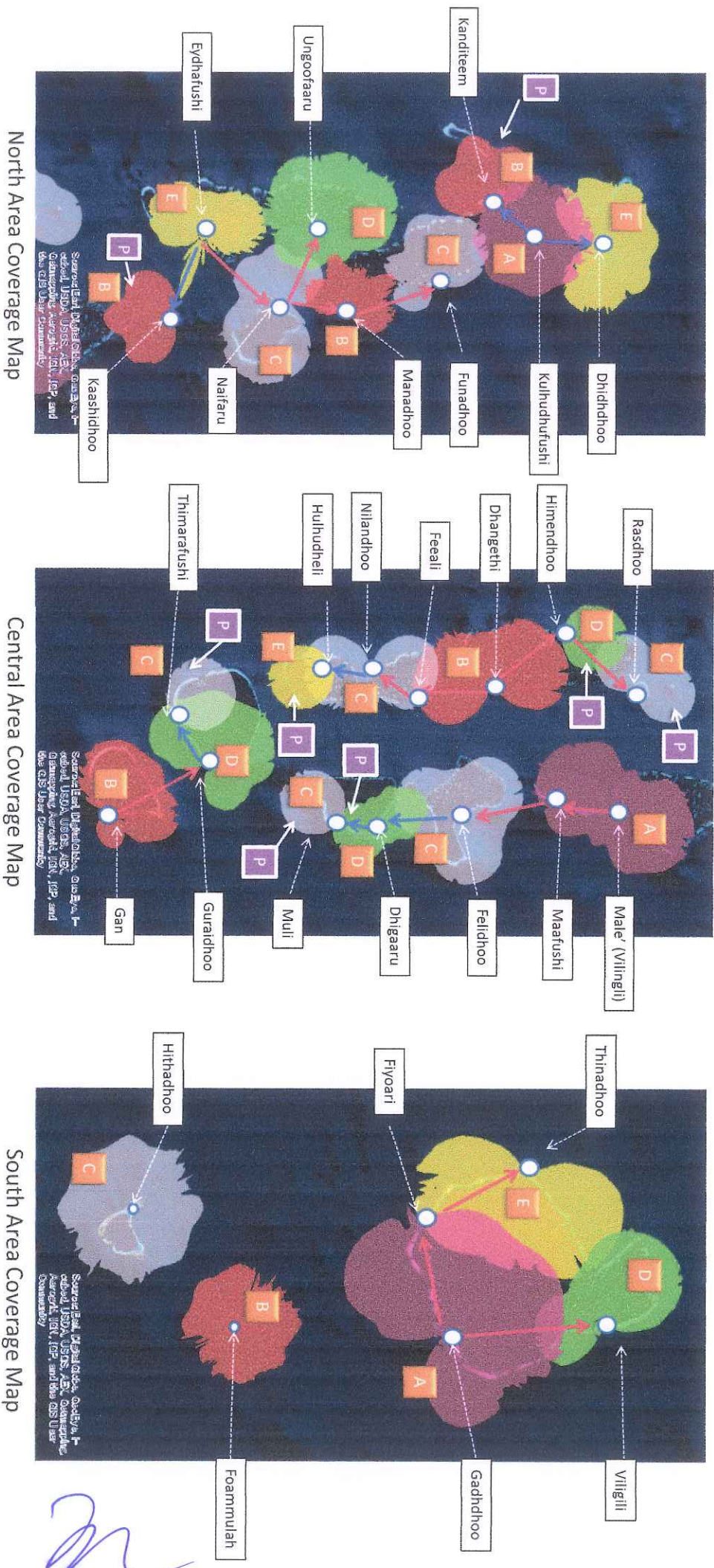


Figure 5-1 Result of Coverage Simulation

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5-3 Transmission link design

Transmission link is designed with consideration of operational cost of DBNO and cost for the Japan's Grant Aid project. The broadcasting Transport Stream (hereinafter referred to as "BTS") is transmitted both/either optical fibers and/or microwave links to the islands where regional hubs of a carrier be able to feed the BTSs to each transmitting station. From the island, private microwave links and broadcasting wave relay owned by DBNO are used to reduce the operational cost. The transmission network is shown Figure 5-1.

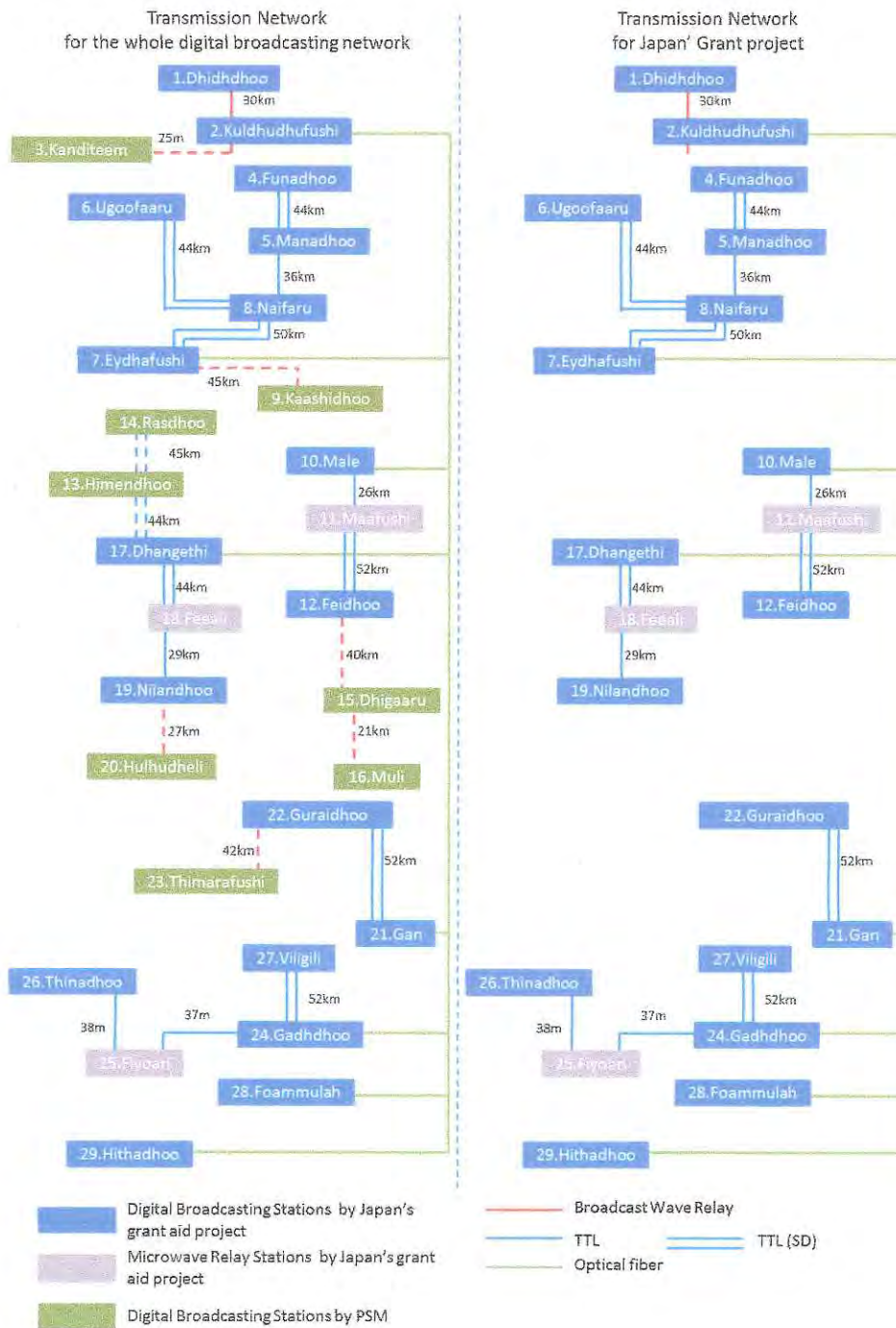


Figure 5-1 Transmission network

5-4 Network Operation Centre Location

PSM plans to provide the space for Network Operation Centre (NOC) for DBNO showed in Figure 5-2. If PSM needs to change the area, PSM will inform the Team as soon as possible with a figure pointed new area.

PSM Television Maldives Building Tentatively allocated area for NOC Operation – 1st Floor

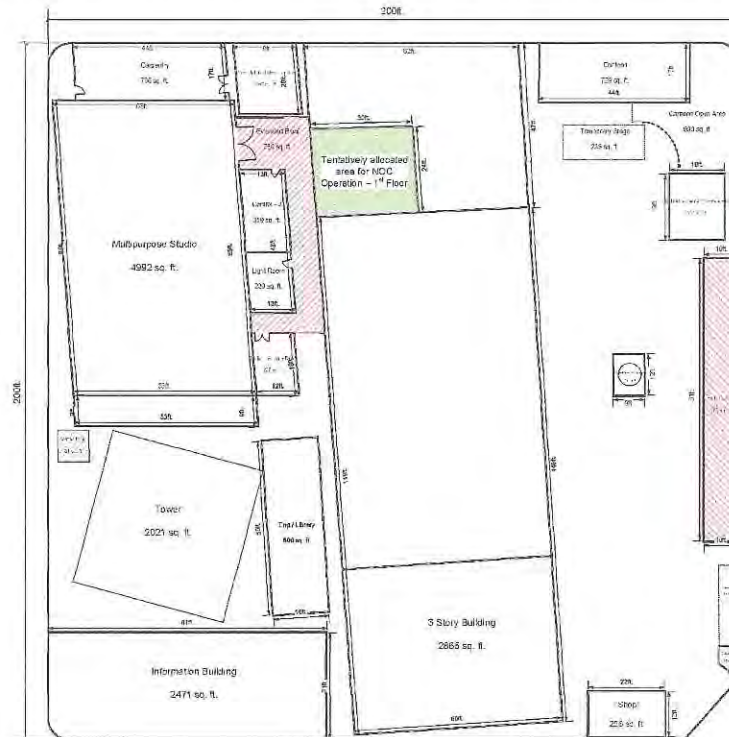


Figure 5-2 NOC Allocated Area

5-5 Component of Equipment

CAM, PSM and the Team have agreed that the following contents of the proposed component of equipment (hereinafter referred to as “the Equipment”) in case 18 transmitting stations are in the scope for further studies by the Team, such as outline design, project cost estimation, preparation of the detail equipment specification and the draft final report, etc.

Table Component of equipment

Nr	Description	Q'ty
1	Digital Transmitting system	18 lot (TBD)
1.1	Digital transmitting system (Dhidhdhoo)	1 lot (TBD)
1.2	Digital transmitting system (Kulhudhushi)	1 lot (TBD)
1.3	Digital transmitting system (Funadhoo)	1 lot (TBD)

Nr	Description	Q'ty
1.4	Digital transmitting system (Manadhoo)	1 lot (TBD)
1.5	Digital transmitting system (Ungoofaaru)	1 lot (TBD)
1.6	Digital transmitting system (Eydhafushi)	1 lot (TBD)
1.7	Digital transmitting system (Naifaru)	1 lot (TBD)
1.8	Digital transmitting system (Male, (Villingili))	1 lot (TBD)
1.9	Digital transmitting system (Felidhoo)	1 lot (TBD)
1.10	Digital transmitting system (Dhangethi)	1 lot (TBD)
1.11	Digital transmitting system (Nilandhoo)	1 lot (TBD)
1.12	Digital transmitting system (Gan)	1 lot (TBD)
1.13	Digital transmitting system (Guraidhoo)	1 lot (TBD)
1.14	Digital transmitting system (Gadhdhoo)	1 lot (TBD)
1.15	Digital transmitting system (Thinadhoo)	1 lot (TBD)
1.16	Digital transmitting system (Viligili)	1 lot (TBD)
1.17	Digital transmitting system (Foammulah)	1 lot (TBD)
1.18	Digital transmitting system (Hithadhoo)	1 lot (TBD)
1.19	Renovation of digital transmitting system	2 set (TBD)
2	Microwave link system	1 lot (TBD)
3	Network Operation Center	1 lot (TBD)
4	PSM Equipment	1 lot (TBD)
4.1	Equipment installed in PSM	1 lot (TBD)
4.2	Equipment installed in MET	1 lot (TBD)
5	Antenna Towers	1 lot (TBD)
5.1	90m antenna tower	5 sets (TBD)
5.2	80m antenna tower	7 sets (TBD)
5.3	60m antenna tower	7 sets (TBD)
5.4	30m antenna tower	1 set (TBD)
5.5	20m antenna pole	1 set (TBD)
6	Transmitting station building	21 lots (TBD)
6.1	Digital transmitting station building	18 sets (TBD)
6.2	Relay station building	2 sets (TBD)
6.3	Renovation of relay station building	1 set (TBD)
7	Maintenance Equipment and Tools	1 lot (TBD)
8	Spare parts	1 lot (TBD)
9	Consumable parts	1 lot (TBD)
10	Installation Materials	1 lot (TBD)

Power Amplifier (PA) of DVT-T/DVB-T2 digital transmitters procured by VTV and DhiTV and ISDB-T digital transmitters operated by PSM are planned to be used for the spare parts in Naifaru and Dhangethi.

“4.2 Equipment installed in MET” includes the following items described in the Figure 5-3 in order to receive live weather forecast program.

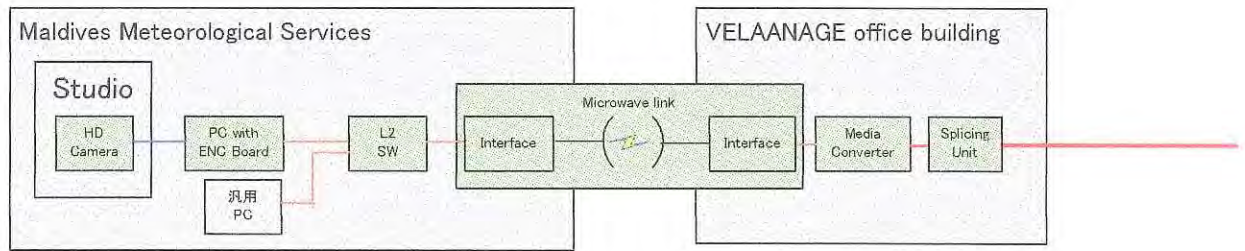


Figure 5-3 Equipment installed in MMS

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6. The Work Demarcation of the Project

The undertakings of the Maldives side for smooth implementation of the Grant Aid project, as a condition for the Japanese Grant to be implemented, have been agreed in the Minutes of Discussions (hereinafter referred to as "M/D") signed on 8th October, 2015 between the Team and the Ministry of Home Affairs. During the 1st field survey, the following modifications have been discussed and agreed. The modifications from M/D are highlighted in red characters. The costs will be estimated by the both sides by March, 2016.

I. Major Undertakings to be taken by Recipient Government

1. Before the Tender

NO	Items	Deadline	In charge	Cost	Ref.
1	To open Bank Account (Banking Arrangement (B/A))	within 1 month after G/A	MoFT		
2	To approve IEE/EIA	before conclusion of G/A	EPA		
3	To implement EIA	before conclusion of G/A	MeHA PSM		
4	To secure the following lands 1) land for transmission station	before EIA implementation	MoHA/ PSM		
5	To obtain the planning, zoning, building permit	before notice of the tender document	MoHA/ PSM		
6	To clear, level and reclaim the following sites 1) leveling and reclaiming the sites for transmission stations	before notice of the tender document	MoHA/ PSM		
7	Preparation of a DTTB Master Plan				
	1) Establishment of a broadcasting network				
	a) Study on coverage expansion to remote islands by preparation of a transmitting station site plan	before end of the preparatory survey	MoHA/ PSM		
	2) Frequency plan	during the preparatory survey	Commission		
	3) the schedules for DSO/ASO and simulcast	before conclusion of G/A	Commission		
	4) Assistance plan and budgetary measures for TV broadcasters	before end of the preparatory survey	MoHA		
	5) Plan for areas of poor reception	before DSO	MoHA/ PSM		
8	Preparation of DTTB migration plan				
	1) Plans to promote purchase of new TV receivers, assist poor households and dispose of disused analogue TV receivers	before DSO	MoHA		
	2) Promotion of the purchase of TV receivers and import of DTTB-compatible equipment	before DSO	MoHA		
	3) Study on Platform Equipment Plan				
	a) Equipment outside the scope of the Project	before end of the preparatory survey	MoHA/ PSM		
	4) Study on business model of DTTB platform including private broadcasters' participation to the platform	before end of the preparatory survey	MoHA/ PSM		
9	Legal Framework and Guidelines				
	1) Amendment of broadcasting laws and regulations	before conclusion of G/A	Commission		

NO	Items	Deadline	In charge	Cost	Ref.
	2) Amendment of broadcasting-related laws and introduction of multiplexing license	before completion of the Project	Commission		
	a) Decree on establishment of the DBNO	before conclusion of G/A	MoHA		
	b) Guidelines for issuance of DTTB licenses	before end of the preparatory survey	Commission		
	3) Licensing standards	before end of the preparatory survey	Commission/CAM		
10	Equipment procurement and construction work				
	1) Study on use of existing properties	during the preparatory survey	MoHA/PSM		
11	Organisational and Human Resource Development				
	1) Study on Disaster-Prevention Broadcasting and Development of Organisational Structure and Human Resources for the Operation of EWBS	before DSO	MoHA/PSM		

2. During the Project Implementation

NO	Items	Deadline	In charge	Cost	Ref.
1	To bear the following commissions to a bank of Japan for the banking services based upon the B/A				
	1) Advising commission of A/P	within 1 month after the signing of the contract	MoHA/PSM		
	2) Payment commission for A/P	every payment	MoFT		
2	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country				
	1) Tax exemption and customs clearance of the products at the port of disembarkation	during the Project	MoHA/PSM		
3	To accord Japanese nationals and/or physical persons of third countries whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work	during the Project	MoHA/PSM		
4	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 and/or borne by its designated authority without using the Grant; Such customs duties, internal taxes and other fiscal levies mentioned above include VAT, commercial tax, income tax and corporate tax of Japanese nationals, resident tax, fuel tax, but not limited, which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract	during the Project	MoHA/PSM		
5	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment	during the Project	MoHA/PSM		
6	Equipment procurement and construction work				
	1) Providing power supply to all the Transmitting and Relay Stations	before equipment at the sites	PSM		
	2) Providing backup power facility to NOC equipment	before equipment at the sites	PSM		
	3) Providing optical fiber connection to the designated transmitting stations	before equipment at the sites	PSM		

NO	Items	Deadline	In charge	Cost	Ref.
	4) Securing sites for the installation of the equipment, material storing yard, temporary construction yard and waste disposal	before equipment at the sites	PSM		
	5) Securing the space for installation for NOC of DBNO and other site(s) and providing power supply to them	before equipment at the sites	PSM		
	6) Removing designated equipment and obstacles from the Project site	before equipment at the sites	PSM		
	7) Demolishing the existing Antennas, feeders and foundation, and leveling the site	before equipment at the sites	PSM		
	8) Constructing the following facilities and install the equipment				
	a) Temporary roads within the sites for construction of the Transmitting and relay Stations	before equipment at the sites	MoHA		
	b) Roads outside the sites if necessary	before equipment at the sites	MoHA		
	c) Parking lots if necessary	before equipment at the sites	MoHA		
	9) Installation of optical fiber cables for the programme transmission between Carrier's NOC and transmitting stations if necessary. Establishing the programme transmission links for the DTTB network	during the Project	MoHA/ PSM		
7	Organisational and Human Resource Development				
	1) Training of personnel in DTTB	during the Project	PSM		
8	To implement EMP and EMoP	during the construction	MoHA/ PSM		
	1) 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	MoHA/ PSM		
	2) To implement RAP (livelihood restoration program, if needed)	for a period based on livelihood restoration program	MoHA/ PSM		
	3) 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 among MoHA, PSM 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)	MoHA/ PSM		

3. After the Project

NO	Items	Deadline	In charge	Cost	Ref.
1	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid 1) Allocation of maintenance cost 2) Operation and maintenance structure 3) Routine check/Periodic inspection	After completion of the construction	PSM		

NO	Items	Deadline	In charge	Cost	Ref.
2	To implement EMP and EMoP	for a period based on EMP and EMoP	PSM		
	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 PSM and JICA.	for three years after the Project	PSM		
3	To secure the budget of programme transmission links managed by carriers	Before actual operation of the platform commencement	PSM		

(B/A: Banking Arrangement, A/P: Authorization to pay, N/A: Not Applicable)

II. Major Undertakings to be Covered by the Japanese Grant

NO	Items	Deadline	Cost Estimated (Million Japanese Yen)*	
1	Preparation of a DTTB Master Plan			
	1) Establishment of a broadcasting network			
	a) Radio wave propagation simulation	before end of the preparatory survey		
	b) Channel planning	before end of the preparatory survey		
2	Preparation of DTTB Migration Plan			
	1) Study on Platform Equipment Plan			
	a) Equipment in the scope of the Project	before end of the preparatory survey		
3	Equipment Procurement and Construction Work			
	1) Study on Availability of Antenna Towers for DTTB	before end of the preparatory survey		
	2) Study on Sites for New Towers and Environmental and Social Considerations	before end of the preparatory survey		
4	To provide equipment			
	1) To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country			
	a) Marine(Air) transportation of the products from Japan to the recipient country	during the Project		
	b) Internal transportation from the port of disembarkation to the project site	during the Project		
	2) Prepare temporary facilities for existing towers and stations for the designated sites.	during the Project		
	3) To install the equipment	during the Project		
	Total			

*: The cost estimates are provisional. This is subject to the approval of the Government of Japan.

7. Tax Exemption Procedure

Tax exemption procedures are handled by the implementation agency for the new project.

The list of equipment and services procured by the Project is prepared by the Supplier approximately two to three months before the arrival of those sets of equipment and services. Then the implementation agency, PSM will submit the list to the President Office with the copy to the Ministry of Finance and Treasury. The President Office assesses the documents and notifies the tax exemption to the Ministry of Finance and Treasury. The procedures are shown in Figure 7-1.

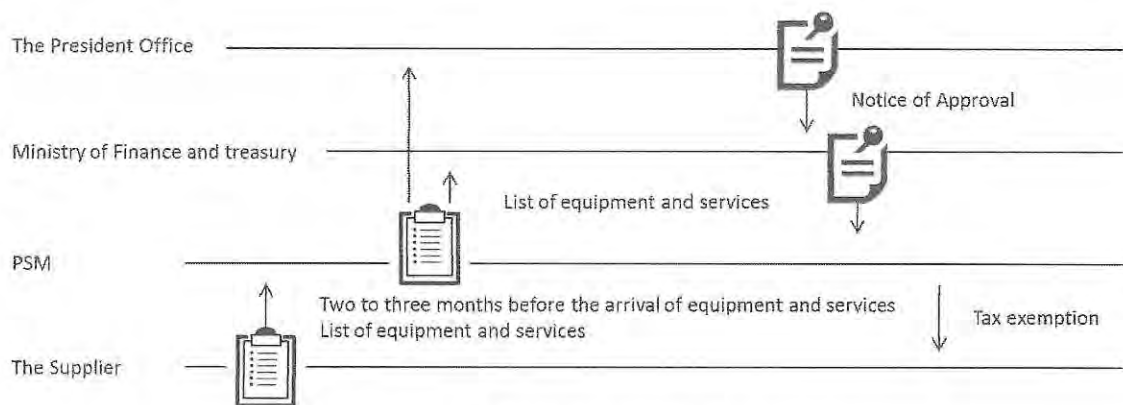


Figure 7-1 Tax exemption procedure

8. Implementation Schedule of the Project (Tentative)

Implementation Schedule based on the request from the Maldives side

Item	2017												2018													
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	
1. Approval by Cabinet, Exchange of Notes (E/N) and Grant Agreement (G/A)	▼	▼ E/N & G/A																								
2. The Consulting Services Agreement between PSM and the Consultant	▼																									
3. Detailed Design and Preparation of the Tender Documents																										
4. Approval of Tender Document																										
5. PQ Tender Notice Evaluation																										
6. Tender Notice, Tender Opening and Evaluation																										
7. Contract between PSM and Japanese Supplier																										
8. Procurement and installation of the Equipment																										
(1) Construction of Station																										
(2) Construction of Tower																										
(3) Manufacturing of the Equipment																										
(4) Shipment																										
(5) Installation of Equipment for Transmitting Stations																										
(6) Installation of Equipment for NOC																										
(9) On the Job Training (Transmittee, NOC)																										
(7) Handover																										
6. Undertakings by the Maldives side																										
(1) Securing of Funds for transmitting and relay stations																										
(2) Leveling of ground and Removal of Obstacles in the Project site																										
(3) Provision of Power Supply and Optical fibre to the designated sites																										

Construction of Stations and Towers is handled by 11 teams

Installation of Equipment is handled by 11 teams including NOC

Note: Implementation schedule mentioned above must be considered whether such teams could be formulated in the same time or not.

If it is impossible Maldives side and the Team will discuss in the solution for the both sides.

Implementation Schedule prepared by the Team

Item	2017												2018						
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1. Approval by Cabinet, Exchange of Notes (EN) and Grant Agreement (GA)	▼	▼ EN & GA																	
2. The Consulting Services Agreement between PSM and the Consultant		▼																	
3. Detailed Design and Preparation of the Tender Documents																			
4. Approval of Tender Document																			
5. PQ Tender Notice, Evaluation																			
6. Tender Notice, Tender Opening and Evaluation																			
7. Contract between PSM and Japanese Supplier																			
8. Procurement and Installation of the Equipment																			
★ Hand-over																			
(1) Construction of Station																			
(2) Construction of Tower																			
(3) Manufacturing of the Equipment																			
(4) Shipment																			
(5) Installation of Equipment for Transmitting Stations																			
(6) Installation of Equipment for NOC																			
(6) On the Job Training (Transmitter, NOC)																			
(7) Handover																			
6. Undertakings by the Maldives side																			
(1) Securing of Funds for transmitting and relay stations																			
(2) Levelling of ground and Removal of Obstacles in the Project site																			
(3) Provision of Power Supply and Optical fibre to the designated sites																			

Construction of Stations and Towers is handled by 5 teams

Installation of Equipment is handled by 11 teams including NOC



9. Implementation Structure of DBNO

DBNO is established within PSM. However, the budget is allocated independently from PSM. The structure of DBNO is shown in Figure 8-1. With regard to the administration works including training, because of the nature of the works the existing sections in PSM can perform its works for both organizations. With regard to transmitting engineering and network operation centre operation, only the manager positions are held by officers from PSM and the rest of the engineers belong to DBNO.

Viewers support is considered to be necessary works for DBNO. In particular, at the initial stage of digital broadcasting, it is expected that the viewer will face many problems such as installation of receivers and antennas and reception of signal if they live in poor reception area. DBNO plays a role to provide support to the viewer with customer call center. The customer call center consists of one officer and two sections. Customer center staff deals with questions and claims from the viewers by telephone, and technical support provide support and answers to the technical questions. Corroboration with islands councils would be required.

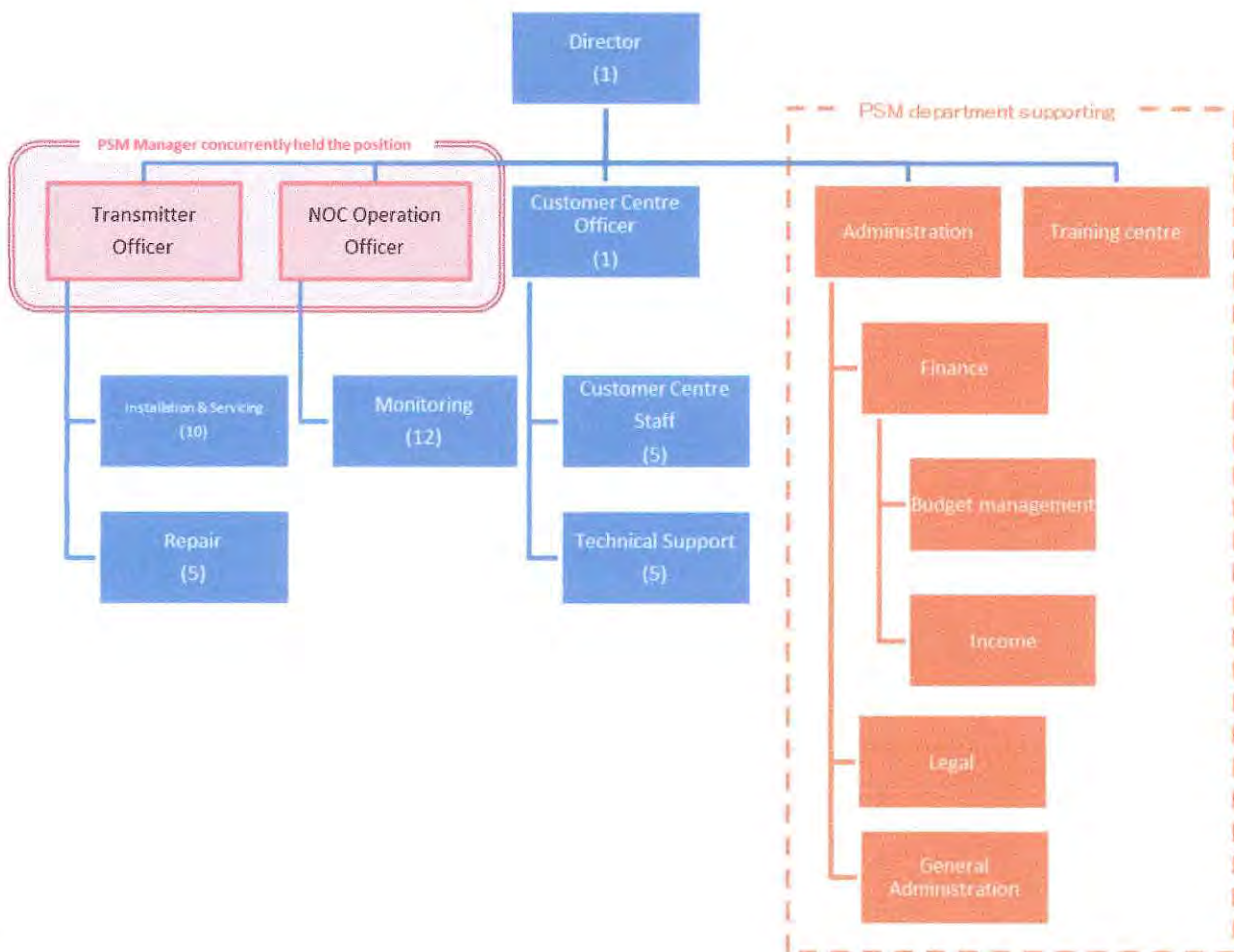


Figure 8-1 Structure of DBNO

The experiences of the DBNO staffs required for each work is shown in Table 8-1

Table 8-1 Experience required for each staff members

No	Professions	Years of Experience
1	Installation and Services	More than 7 years
2	Repair	More than 7 years
3	Monitoring	More than 7 years
4	Customer Center Officer	More than 5 years
5	Customer Centre Staff	Not required
6	Technical Support	More than 1 year as transmitting engineer

The tentative operation and maintenance cost of DBNO is shown in Table 8-2. The team will further examine on it.

Table 8-2 Annual Operation and Maintenance Cost of DBNO (Tentative)

					Unit: MVR
	Item	Qty	Unit	Annual Amount	
1	Personnel costs	39		5.81	
	Director	1	0.30	0.30	
	Customer Centre Officer	1	0.16	0.16	
	Transmitter Engineer (Installation and Servicing)	10	0.20	2.00	
	Transmitter Engineer (Repair)	5	0.20	1.00	
	Operator (Monitoring)	12	0.10	1.20	
	Customer Call Centre Operator	5	0.10	0.50	
	Customer Call Centre Technical Support	5	0.13	0.65	
2	Electricity costs (NOC)	1	0.12	0.12	
3	Repair and maintenance costs			9.18	
	Tower Maintenance	21	0.150	3.15	
	TX house and site cleaning	21	0.055	1.16	
	TX house maintenance	18	0.050	0.90	
	Relay station maintenance	3	0.030	0.09	
	Electricity (TX)	18	0.200	3.60	
	Electricity (Relay station)	3	0.060	0.18	
	Communication (including data)	21	0.005	0.11	
4	Tower rental fee	0	0.000	0.00	

	Item	Qty	Unit	Annual Amount	
5	Optical fiber connection fees	1	6.00	6.00	
6	Frequency licensing fees	20	0.25	5.00	
7	Other expenses			3.78	
		Communication fee (NOC)	1	0.60	0.60
		Communication fee (Customer Centre)	1	0.90	0.90
		Incidentals fee (10%of #1-#6)			2.28
	Total			29.89	

The tariff for DBNO was calculated based on the rate of bitrate required for each service. One BTS consists of 2 HDs, 2 SDs, 1 Data broadcasting and 1 one-seg services. The bitrate required for each service is approximately 6 Mbps for HD, 3 Mbps for SD, 1.5 Mbps for Data broadcasting and 0.7 Mbps for one-seg service. Therefore the ratio of each service that occupies one frequency is shown in Table 8-3.

Table 8-3 Data ratio of each service in one frequency

No	Content	Ratio
1	HD	0.30
2	SD	0.15
3	Data Broadcasting	0.07
4	One-seg	0.03

The tariff of DBNO was calculated based on the future investment plan including the 8 addition sites procured by PSM apart from digital transmitting stations procured by Japan's grant project and the plan of operation with four frequencies in the future. The tentative tariff is shown in table 8-4. Also, Maldives side will provide further information to the Team, the Team will re-calculate based on them when the Team receives.

Table 8-4 Tariff for DBNO (Tentative)

	Unit: MVR					
(MVR)	1-2 year	3-4 year	5-9 year	10-20 year	21-24 year	over 25 year
HD (baseline)	4,977,413	4,977,413	3,318,275	2,488,706	2,488,706	2,488,706
F discount (baseline)	4,632,413	4,632,413	3,088,275	2,316,206	2,316,206	2,316,206
Additional service investment reserve	569,184	1,030,260	412,104	0	0	0
HD Total	5,546,597	6,007,673	3,730,379	2,488,706	2,488,706	2,488,706
HD Total/m	462,216	500,639	310,865	207,392	207,392	207,392
HD Total	5,201,597	5,662,673	3,500,379	2,316,206	2,316,206	2,316,206

(MVR)	1-2 year	3-4 year	5-9 year	10-20 year	21-24 year	over 25 year
(F discount)						
HD Total (F discount)/m	433,466	471,889	291,698	193,017	193,017	193,017
SD	2,488,706	2,488,706	1,659,138	1,244,353	1,244,353	1,244,353
F discount	2,316,206	2,316,206	1,544,138	1,158,103	1,158,103	1,158,103
Additional service investment reserve	284,592	515,130	206,052	0	0	0
SD Total	2,773,298	3,003,836	1,865,190	1,244,353	1,244,353	1,244,353
SD Total/m	231,108	250,320	155,432	103,696	103,696	103,696
SD Total (F Discount)	2,600,798	2,831,336	1,750,190	1,158,103	1,158,103	1,158,103
SD Total (F Discount)/m	216,733	235,945	145,849	96,509	96,509	96,509
Data	1,161,396	1,161,396	774,264	580,698	580,698	580,698
F discount	1,080,896	1,080,896	720,598	540,448	540,448	540,448
Additional service investment reserve	132,810	240,394	96,158	0	0	0
Data Total	1,294,206	1,401,790	870,422	580,698	580,698	580,698
Data Total/m	107,850	116,816	72,535	48,392	48,392	48,392
Data Total (F discount)	1,213,706	1,321,290	816,755	540,448	540,448	540,448
Data Total (F discount)/m	101,142	110,108	68,063	45,037	45,037	45,037
One-seg	497,741	497,741	331,828	248,871	248,871	248,871
F discount	463,241	463,241	308,828	231,621	231,621	231,621
Additional service investment reserve	56,918	103,026	41,210	0	0	0
One-seg Total	554,660	600,767	373,038	248,871	248,871	248,871
One-seg Total/m	46,222	50,064	31,086	20,739	20,739	20,739
One-seg Total (F discount)	520,160	566,267	350,038	231,621	231,621	231,621
One-seg Total (F discount)/m	43,347	47,189	29,170	19,302	19,302	19,302

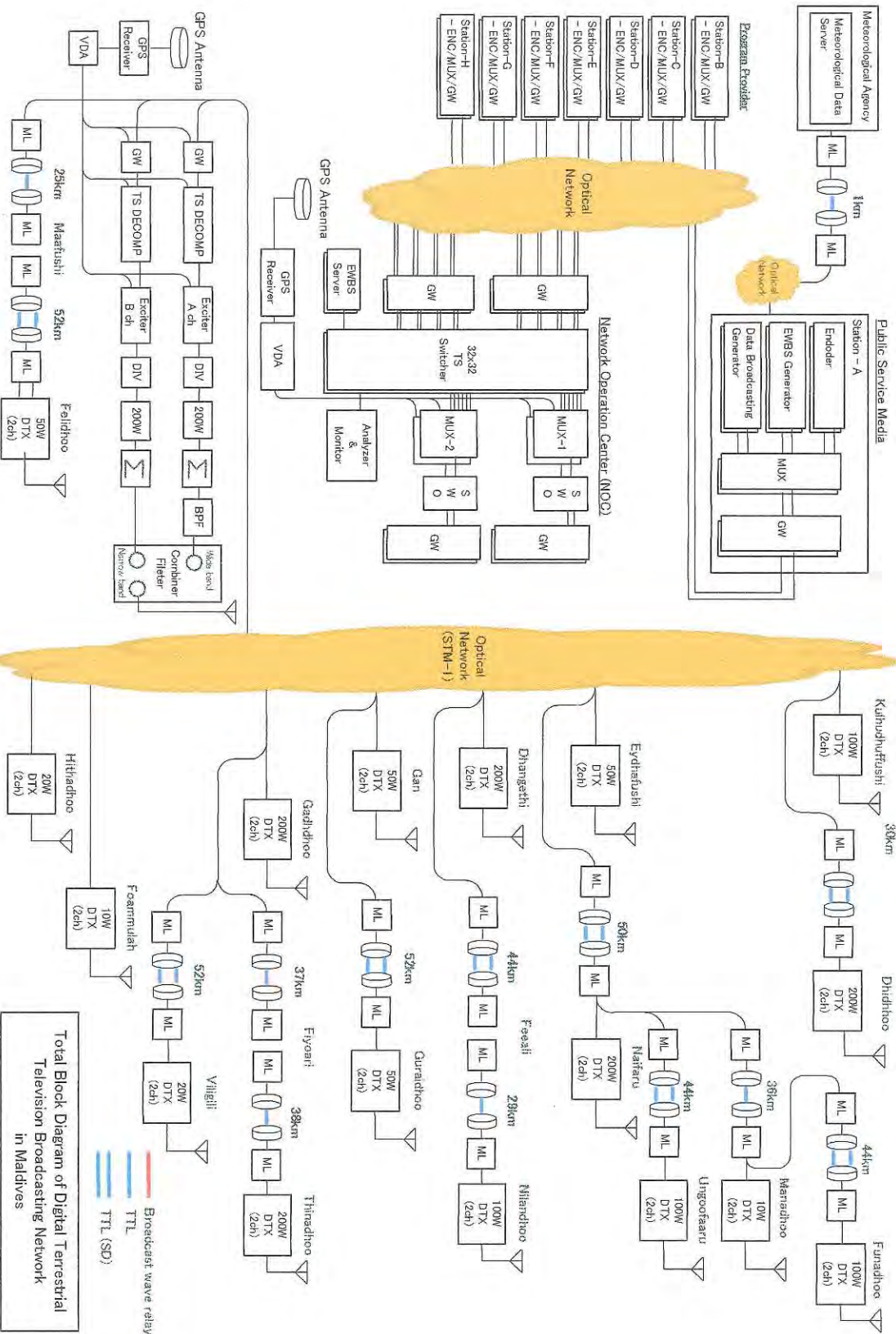
10. Budget Estimation of the Undertakings by PSM (the Maldives side)

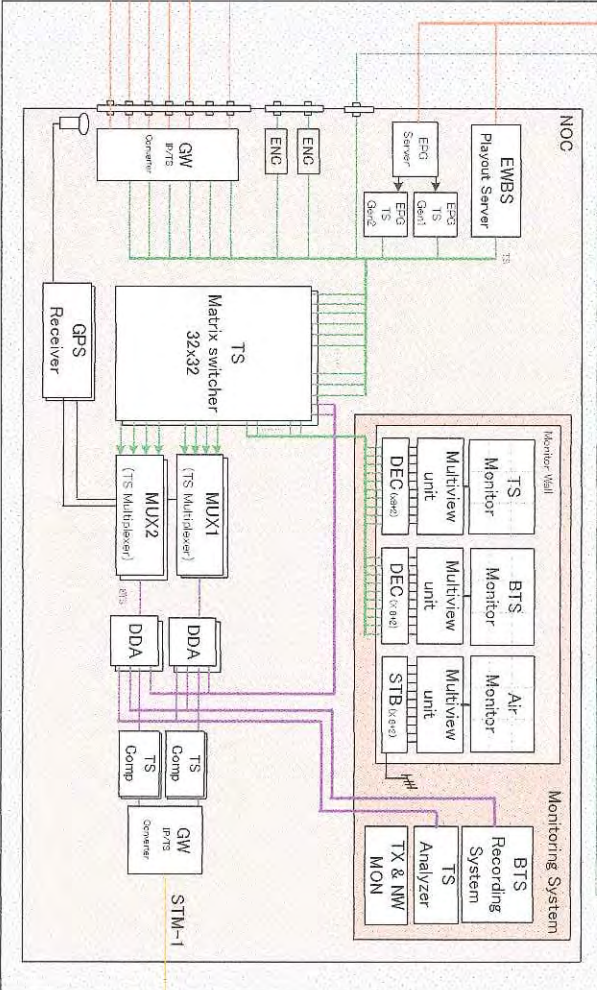
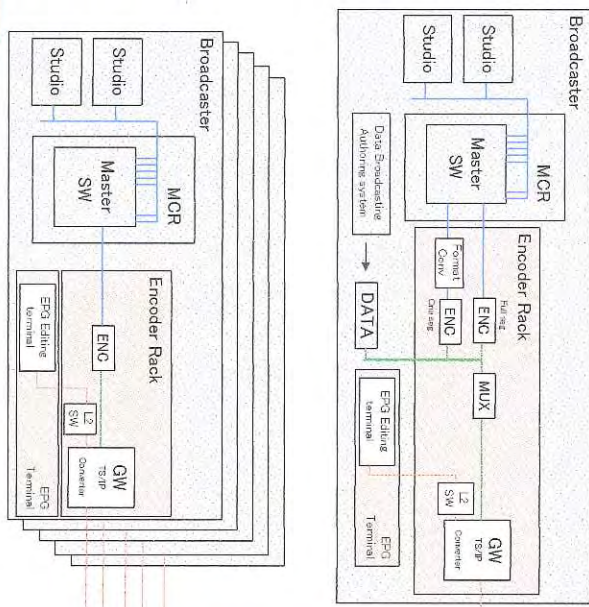
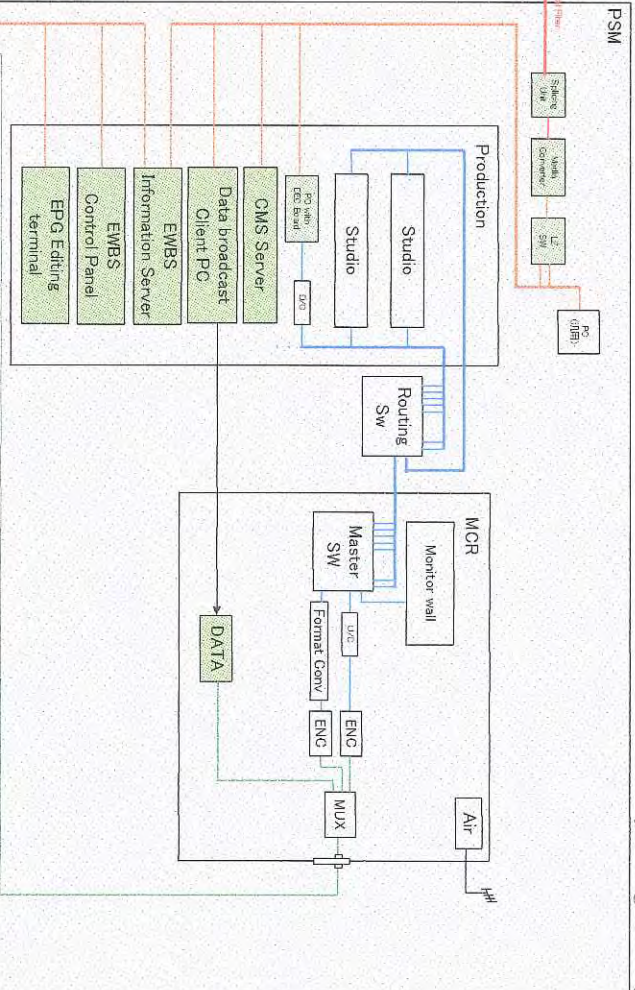
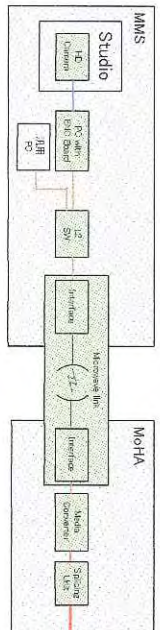
For the undertakings to be done by the Maldives side, the Team estimated the budget necessary for conducting undertakings. The estimated budget is shown in Table 9-1

Table 9-1 Budget estimation of the undertakings by the Maldives side

No	Item	Estimated Cost (million MVR)	Remarks
1	Application for EIA or IEE approval	TBD	Calculation provided by PSM
2	Land acquisition	0	Calculation provided by PSM
3	Providing power supply to all the transmitting and relay stations.	TBD	Calculation provided by PSM
4	Providing backup power facility to NOC equipment	TBD	Calculation provided by PSM
5	Providing optical fiber connection to the designated transmitting stations	2.40	Quotation is requested to telecommunication companies. It is under examination whether the optical fiber line owned by telecommunication company is used or PSM prepares their own optical fiber line.
6	Removal of designated equipment and obstacles from the Project site and leveling the ground	1.07	
7	Demolishing the existing antennas and stations from designated sites	0.02	
Total amount:		3.49	





Requested scope of the Grant Aid

Requested scope of the Grant Aid

添付資料

資料-5 討議議事録 (M/D)

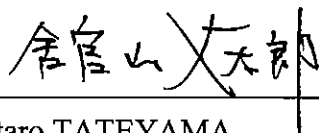
MINUTES OF DISCUSSIONS
ON THE PREPARATORY SURVEY FOR THE PROJECT FOR
THE DIGITAL TERRESTRIAL TELEVISION BROADCASTING NETWORK
DEVELOPMENT
(Explanation on Draft Preparatory Survey Report)

On the basis of the discussions and field survey in the Republic of Maldives (hereinafter referred to as "Maldives") in October 2015, and the subsequent technical examination of the results in Japan, the Japan International Cooperation Agency (hereinafter referred to as "JICA") prepared a draft Preparatory Survey Report (hereinafter referred to as "the Draft Report") on the Project for the Digital Terrestrial Television Broadcasting Network Development (hereinafter referred to as "the Project").

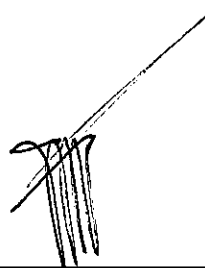
In order to explain the Draft Report and to consult with the concerned officials of the Government of Maldives on its contents, JICA sent to Maldives the Preparatory Survey Team for the explanation of the Draft Report (hereinafter referred to as "the Team"), headed by Jotaro TATEYAMA, Deputy Director, Team 1, Transportation and ICT Group, Infrastructure and Peacebuilding Department, JICA, and is scheduled to stay in the country from 9 June to 16 June, 2016.

As a result of the discussions, both sides confirmed the main items described in the attached sheets.

Male, 16 June, 2016



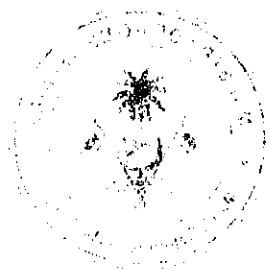
Jotaro TATEYAMA
Leader
Preparatory Survey Team
Japan International Cooperation Agency
Japan



Umar Naseer
Minister
Ministry of Home Affairs
The Republic of Maldives



Ibrahim Khaleel
Managing Director
Public Service Media



(Witness)



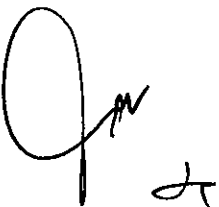
Hiroshi SAITO
Resident Representative
JICA/JOCV Maldives Office
Japan International Cooperation Agency

(Witness)



Aishath Azeema
Joint Secretary
Ministry of Foreign Affairs
The Republic of Maldives

CC: Mohamed Shabyb, President, Maldives Broadcasting Commission





ATTACHMENT

1. Objective of the Project

The objective of the Project is to improve access to information of the national and resolve regional disparities on information through development of a digital terrestrial television network, thereby contributing to mitigating vulnerability and further social and economic development.

2. Title of the Preparatory Survey

Both sides confirmed the title of the Preparatory Survey as “the Preparatory Survey for the Project for the Digital Terrestrial Television Broadcasting Network Development”.

3. Project Site

Both sides confirmed that the sites of the Project are to cover most of Maldives, which is shown in Annex 1.

4. Line Agency and Executing Agency

Both sides confirmed the line agency and the executing agency as follows. The organization charts are shown in Annex 2.

4-1. The line agency is Ministry of Home Affairs (hereinafter referred to as “MoHA”), which would be the agency to supervise the executing agency.

4-2. The executing agency is the Public Service Media (hereinafter referred to as “PSM”). The executing agency shall coordinate with all the relevant agencies to ensure smooth implementation of the Project and ensure that the undertakings are taken by relevant agencies properly and on time.

5. Contents of the Draft Report

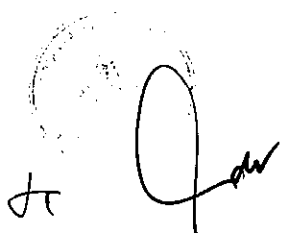
After the explanation of the contents of the Draft Report by the Team, the Maldives side agreed in principle to its contents.

6. Cost Estimation

Both sides confirmed that the Project cost estimation described in the Draft Report was provisional and would be examined further by the Government of Japan for its final approval.

7. Confidentiality of the Cost Estimation and Specifications

Both sides confirmed that the Project cost estimation and technical specifications in the Draft Report should never be duplicated or disclosed to any third parties until all the



contracts of the Project are concluded.

8. Japanese Grant Scheme

The Maldives side understands the Japanese Grant Scheme and its procedures as described in Annex 4, Annex 5, and Annex 6, and necessary measures to be taken by the Government of Maldives.

9. Project Implementation Schedule

The Team explained to the Maldives side that the expected implementation schedule is as attached in Annex 7.

10. Expected outcomes and Indicators

Both sides agreed that key indicators for expected outcomes are as follows. The Maldives side has responsibility to monitor the progress of the indicators and achieve the target in year 2021.

[Quantitative Effect]

	Items	Baseline (2016)	Expected result (2021)
1	Terrestrial broadcasting coverage	83.23% in analogue	91.23% in digital
2	The number of channels available in the atolls	1	8

[Qualitative Effect]

- The environment is set to resolve the regional disparities on information.
- It is expected that the cultural, educational and knowledge level of the nation will be improved by providing various options to the viewers.
- It will improve convenience of access to information by providing the information that meets regional needs with data broadcasting.
- Disaster information could be distributed on time by EWBS and one-seg service enables to access to disaster or weather information while moving.

11. Undertakings Taken by Both Sides

Both sides confirmed to undertakings described in Annex 8. The Maldives side assured to take the necessary measures and coordination including allocation of the necessary budget which is preconditions of implementation of the Project. It is further agreed that the costs are indicative, i.e. at Outline Design level. More accurate costs will be calculated at the Detailed Design stage. Contents of Annex 8 will be updated as the Detailed Design progresses, and will finally be used in the contract document.



Only the items in Annex 8 that need special attention are described in the followings.

11-1 Land acquisition

The Maldives side shall acquire the lands for transmitting and relay stations and submit an official letter to JICA/JOCV Maldives Office to inform the results by August 15, 2016.

11-2 Approval of EIA

The Maldives side shall obtain approval of EIA for the identified eleven sites by E/N. The Maldives side shall submit an official letter to JICA/JOCV Maldives Office to inform the results by August 31, 2016.

11-3 Location of Network Operation Center (NOC)

The Maldives side shall secure space for NOC. The location is the first floor of the TV Maldives Building of PSM. Necessary renovation shall complete before delivery of NOC equipment to the site. The renovation progress shall be regularly communicated to JICA/JOCV Maldives Office.

11-4 Allocation of frequency

The Maldives side shall allocate frequencies as Annex 9 for digital terrestrial broadcasting as well as microwave transmission links.

11-5 Establishment of the Digital broadcasting Network Operator (DBNO)

The Maldives side shall establish the DBNO, with necessary legal and institutional arrangement, by August 31, 2016. The DBNO shall make agreements with private broadcasting stations on their participation to the DBNO by August 31, 2016.

11-6 Removing designated equipment and obstacles

The Maldives side shall remove designated equipment and obstacles as well as land clearance from the Project sites prior to delivery of the equipment provided by the Project to the Project sites.

11-7 Power supply

The Maldives side shall provide power supply to all the Transmitting and Relay Stations as well as backup power facility to NOC equipment prior to delivery of the equipment provided by the Project to the Project sites.

12. Monitoring during the Implementation

The Project will be monitored and reported every quarter by the executing agency and using the Project Monitoring Report (PMR) in Annex 10.

13. Ex-Post Evaluation

JICA will conduct ex-post evaluation three (3) years after the project completion with respect to five evaluation criteria (Relevance, Effectiveness, Efficiency, Impact,



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Sustainability) of the Project. Result of the evaluation will be publicized. The Maldives side is required to provide necessary support for them.

14. Schedule of the Study

JICA will complete the Final Report of the Preparatory Survey in accordance with the confirmed items and send it to the Maldives side around September, 2016.

15. Environmental and Social Considerations

15-1 General Issues

15-1-1 Environmental Guidelines and Environmental Category

The JICA mission explained that 'JICA Guidelines for Environmental and Social Considerations (April 2010)' (hereinafter referred to as 'the Guidelines') is applicable for the Project. The Project is categorized as B because the Project is not located in a sensitive area, nor has it sensitive characteristics, nor falls it into sensitive sectors under the Guidelines, and its potential adverse impacts on the environment are not likely to be significant.

15-1-2 Environmental Checklist

The environmental and social considerations including major impacts and mitigation measures for the Project are summarized in the Environmental Checklist attached as Annex 11. Both sides confirmed that in case of major modification of the content of the Environmental Checklist, the Maldives side shall submit the modified version to JICA in a timely manner.

15-2 Environmental Issues

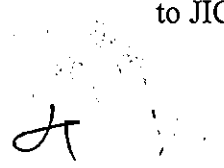
15-2-1 Environmental Impact Assessment (EIA)

Both sides confirmed that the EIA report will be approved by Environment Protection Agency by August 31, 2016. As a result of the EIA report, in case that the further mitigation measures are required, the measures shall be discussed and agreed between both sides.

15-2-2 Environmental Management Plan and Environmental Monitoring Plan

Both sides confirmed Environmental Management Plan (EMP) and Environmental Monitoring Plan (EMoP) of the Project is as Annex 12. Both sides agreed that environmental mitigation measures and monitoring shall be conducted based on the EMP and EMoP, which may be updated during the detailed design stage.

Both sides agreed that during the environmental and social consideration studies for EIA report to be implemented by the Maldives side, the Maldives side shall conduct the study on ecosystems and obtain baseline data, of which JICA confirms the result. Based on the result of the study, the Maldives side shall revise EMP and EMoP as needed and report it to JICA.



15-4 Environmental and Social Monitoring

15-4-1 Environmental Monitoring

Both sides agreed that the Maldives side will submit results of environmental monitoring to JICA by using the monitoring form attached as Annex 13.

15-4-2-Information Disclosure of Monitoring Results

Both sides confirmed that the Maldives side will disclose results of environmental and social monitoring to local stakeholders through their website.

The Maldives side agreed JICA will disclose results of environmental and social monitoring submitted by the Maldives side as the monitoring forms attached as Annex 12 on its website.

16. Other Relevant Issues

16-1 Operation and Maintenance of the Facilities (Equipment)

The team explained the importance of operation and maintenance of the facilities constructed by the Project considering that proper asset management impacts greatly on life-span of the facilities and its maintenance cost. The Maldives side shall secure enough staff and budgets necessary for appropriate operation and maintenance of the facilities. The annual operation and maintenance costs are estimated and shown in Annex 8.

16-2 Eligible source countries

The team explained that the following items could be procured from eligible source countries in view of quality assurance and economic rationality of those products as well as bid competitiveness.

No	Item	Eligible source country
1	Power amplifier	Germany
2	Antenna system	Thailand, Australia
3	Network system	Sweden
4	Antenna tower and pole	Thailand, China
5	NOC equipment (Network)	Sweden
6	Maldives Meteorological Service studio equipment (Network)	Sweden

16-3 Cooperation among Relevant Organizations

The Maldives side shall work closely with the Maldives Broadcasting Commission and Communication Authority of Maldives (CAM) to complete the DTTB master plan, the DTTB migration plan, and Legal Framework and Guidelines by the specified timeline in Annex 8.



16-4 Development of the transmitting stations by the Maldives side

In order to realize the target of migration to digital terrestrial television broadcasting by the government of Maldives, which is to cover every household in the country, the Maldives side shall develop the additional eight (8) transmitting stations in 2017 and 2018. Its budget shall be secured by Public Service Media, supported by Ministry of Home Affairs.

16-5 Independence of the DBNO

In order to provide fair services to participating broadcasting stations to the DBNO, the Maldives side shall make legal and institutional arrangement of the DBNO so that the DBNO is able to operate independently as well as politically neutral from any intervention.

16-6 Receivers

In order to achieve smooth migration to digital terrestrial television broadcasting, penetration of receivers is indispensable. PSM shall promote policies for penetration of receivers, including assistance to poor households to obtain receivers.

16-6 Disclosure of Information

Both sides confirmed that the study results excluding the Project cost will be disclosed to the public after completion of the Preparatory Survey. All the study results including the project cost will be disclosed to the public after all the contracts for the Project are concluded

(End)

Annex 1: Project Site

Annex 2: Organization Chart

Annex 3: Project Cost Estimation

Annex 4: Japanese Grant

Annex 5: Flow Chart of Japanese Grant Procedures

Annex 6 Financial Flow of Japanese Grant

Annex 7: Project Implementation Schedule

Annex 8: Major Undertakings to be taken by Each Government

Annex 9: Frequency Allocation

Annex 10: Project Monitoring Report (template)

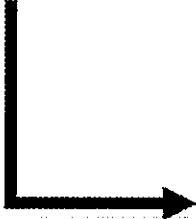
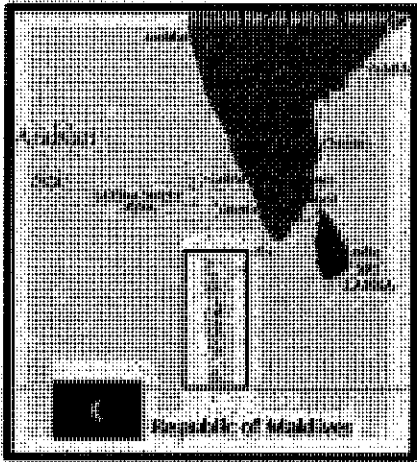
Annex 11: Environmental Check List

Annex 12: Environmental Management Plan / Environmental Monitoring Plan

Annex 13: Environmental and Social Monitoring Form



Project Sites



●	Network Operation Center
⊙	Transmitting Station
○	Micro Wave Relay Station

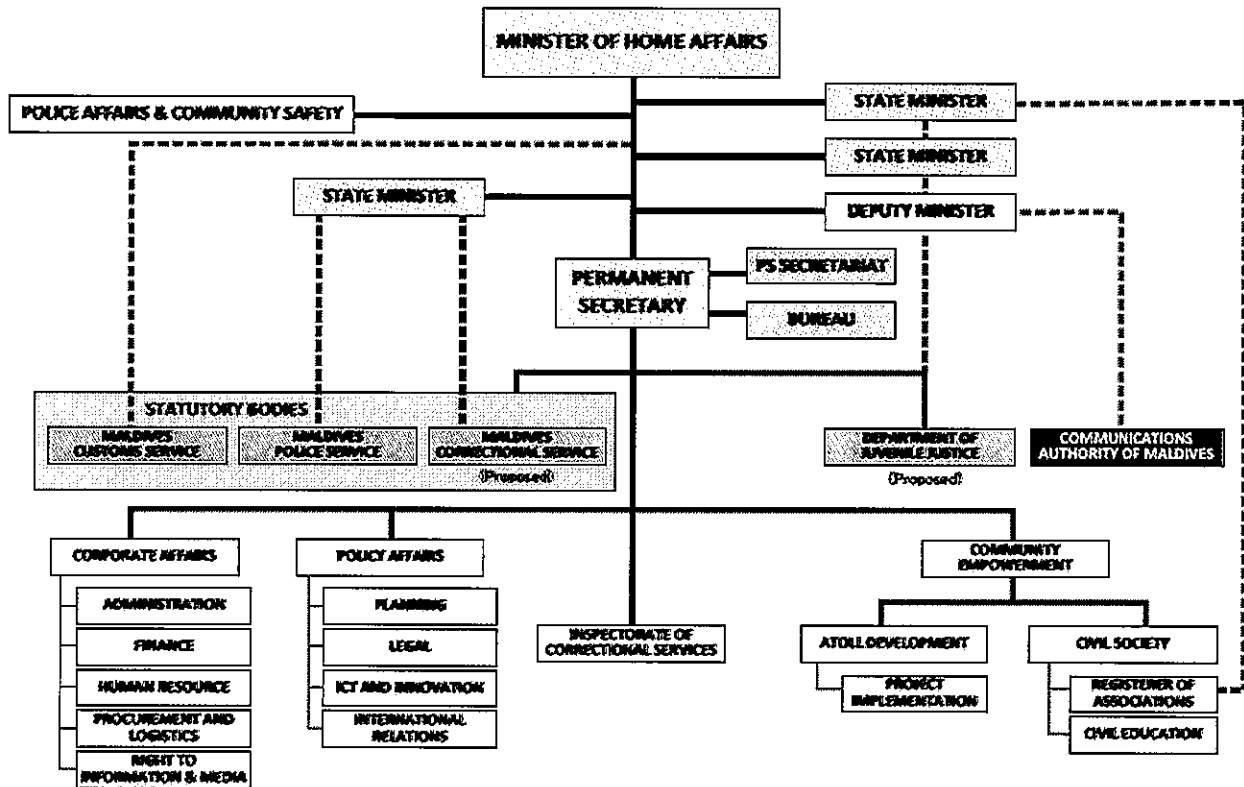
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Organization Charts

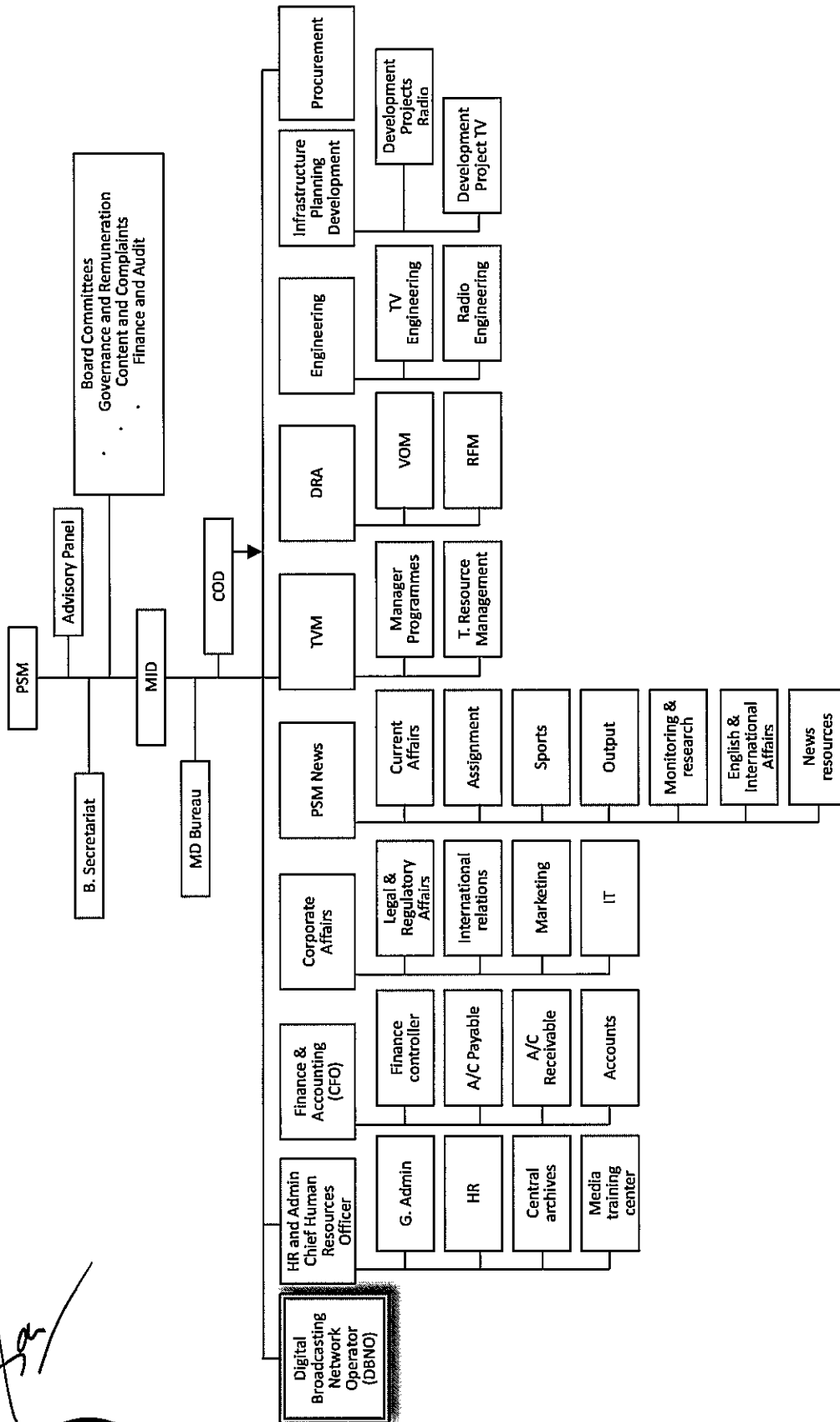
(1) Ministry of Home Affairs



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(2) Public Service Media (PSM)



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Project Cost Estimation

1. Cost Estimation Borne by the Government of Japan

Components		Cost Estimation (Million Yen)
Procurement and Installation	Digital transmitting system	Not open to the public
	NOC system	
	PSM equipment	
	Assembly boxes	
	Spare parts	
	Measurement and maintenance equipment	
Construction	Antenna towers/poles	
Detailed design and Procurement Supervision		
Contingencies		
Total		

2. Cost Estimation Borne by the Government of the Republic of Maldives

Item	Cost Estimation (MVR)	Note
Approval for IEE/EIA	550,000	13 sites
Removal of existing antenna, feeder, foundation, trees and leveling the sites	2,180,000	
Relocation and operational cost for existing transmitting equipment to temporary sites	1,400,000	Ungoofaaru , Eydhafushi, Felidhoo, Nilandhoo
Securing backup power to NOC equipment	1,097,400	20kVA
Securing commercial power supply to all transmitting and relay stations	798,000	Cable: MVR 1,200/m Installation of cable: MVR 100/m Meter:MVR 12,000/site
Renovation and preparation of NOC area	2,800,000	
Internal Tax	6,377,383	Goods and Services Tax 6%



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Item	Cost Estimation (MVR)	Note
Bank commissions (Advising commission of Authorization to Pay (A/P) and payment commission)	370,313	Approximately 0.1% of the total Project cost
Training of DBNO personnel	800,000	
Total	16,373,096	

Notes:

1) Conditions of cost estimation

- Estimated timing: November 2015
- Exchange rates: USD 1.00 = JPY 122.20
MVR 1.00 = JPY 7.95

2) Others

The project is implemented in accordance with the scheme of Japan's Grant Aid. The above cost estimation does not assure the ceiling cost on the E/N and shall be reviewed by the Government of Japan before the conclusion of the E/N between the both governments.



JAPANESE GRANT

The Japanese Grant (hereinafter referred to as the “Grant”) is non-reimbursable fund provided to a recipient country to procure the facilities, equipment and 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. The Grant is not supplied through the donation of materials as such.

Based on a JICA law which was entered into effect on October 1, 2008 and the decision of the GOJ, JICA has become the executing agency of the Japanese Grant for Projects for construction of facilities, purchase of equipment, etc.

1. Grant Procedures

The Grant is supplied through following procedures:

- Preparatory Survey
 - The Survey conducted by JICA
- Appraisal & Approval
 - Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Authority for Determining Implementation
 - The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as “the G/A”)
 - Agreement concluded between JICA and a recipient country
- Implementation
 - Implementation of the Project on the basis of the G/A

2. Preparatory Survey

(1) Contents of the Survey

The aim of the preparatory Survey is to provide a basic document necessary for the appraisal of 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 relevant agencies of the recipient country necessary for the



implementation of the Project.

- Evaluation of the appropriateness of the Project to be implemented under the Grant Scheme 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.

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

JICA requests the Government of the recipient country to take whatever 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 organization of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (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 appropriateness of the Project.

3. Japanese Grant Scheme

(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 country to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary



articles, in accordance with the E/N, to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

(2) 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 country to continue to work on the Project's implementation after the E/N and G/A.

(3) Eligible source country

Under the Grant, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. The Grant may be used for the purchase of the products or services of a third country, if necessary, taking into account the quality, competitiveness and economic rationality of products and services necessary for achieving the objective of the Project. However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm are limited to "Japanese nationals", in principle.

(4) Necessity of "Verification"

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

(5) Major undertakings to be taken by the Government of the Recipient Country

In the implementation of the Grant Project, the recipient country is required to undertake such necessary measures as Annex. The Japanese Government requests the Government of the recipient country to exempt all customs duties, internal taxes and other fiscal levies such as VAT, commercial tax, income tax, corporate tax, resident tax, fuel tax, but not limited, which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract, since the Grant fund comes from the Japanese taxpayers.

(6) "Proper Use"

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

dt



(7) "Export and Re-export"

The products purchased under the Grant should not be exported or re-exported from the recipient country.

(8) Banking Arrangements (B/A)

- a) The Government of the recipient country or its designated authority should open an account under the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"), in principle. JICA will execute the Grant by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions paid to the Bank.

(10) Environmental and Social Considerations

The Government of the recipient country must carefully consider environmental and social impacts by the Project and must comply with the environmental regulations of the recipient country and JICA Guidelines for Environmental and Social Consideration (April, 2010) .

(11) Monitoring

The Government of the recipient country must 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 must regularly report to JICA about its status by using the Project Monitoring Report (PMR).

(12) Safety Measures

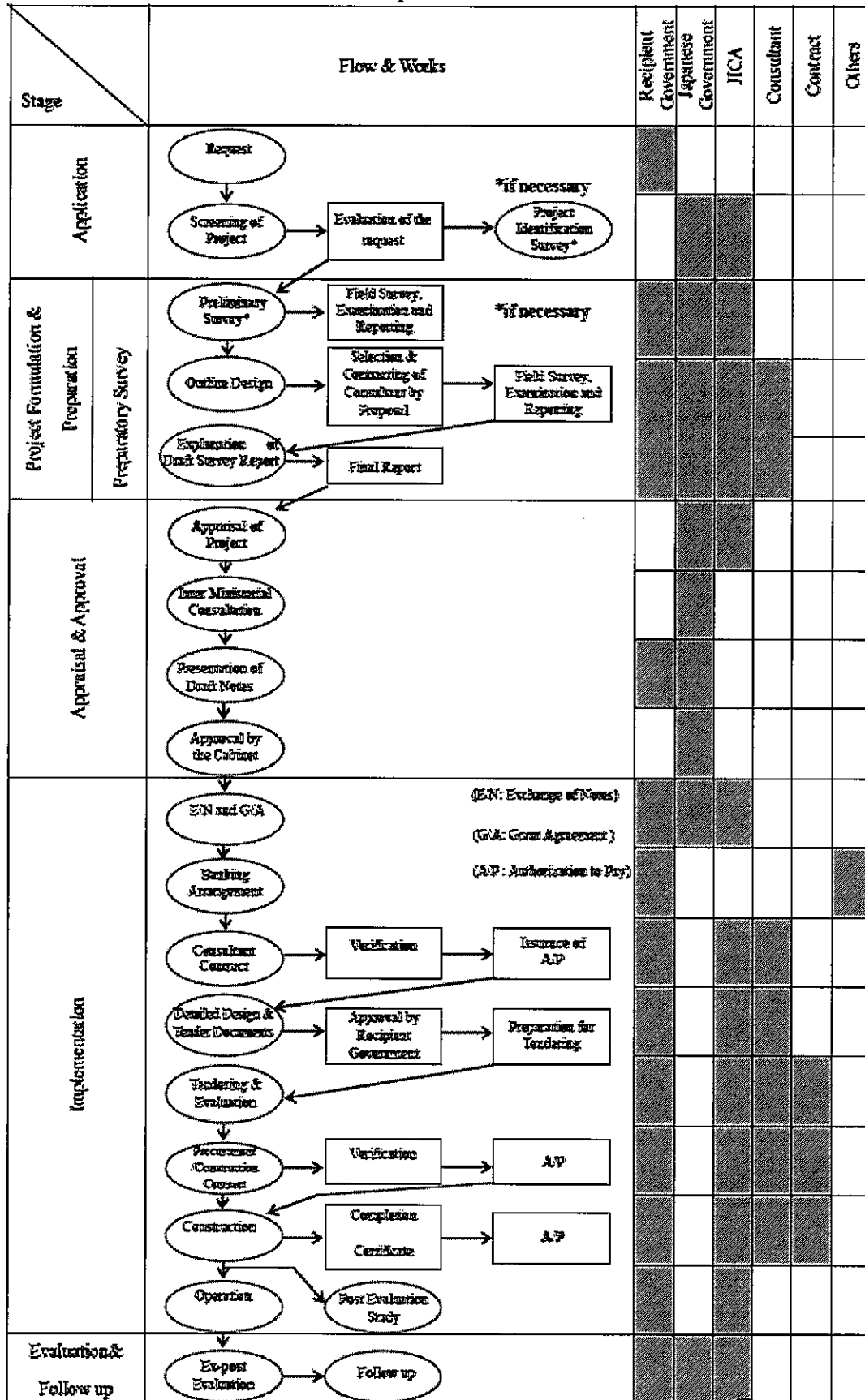
The Government of the recipient country must ensure that the safety is highly observed during the implementation of the Project.

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Flow Chart of Japanese Grant Procedures

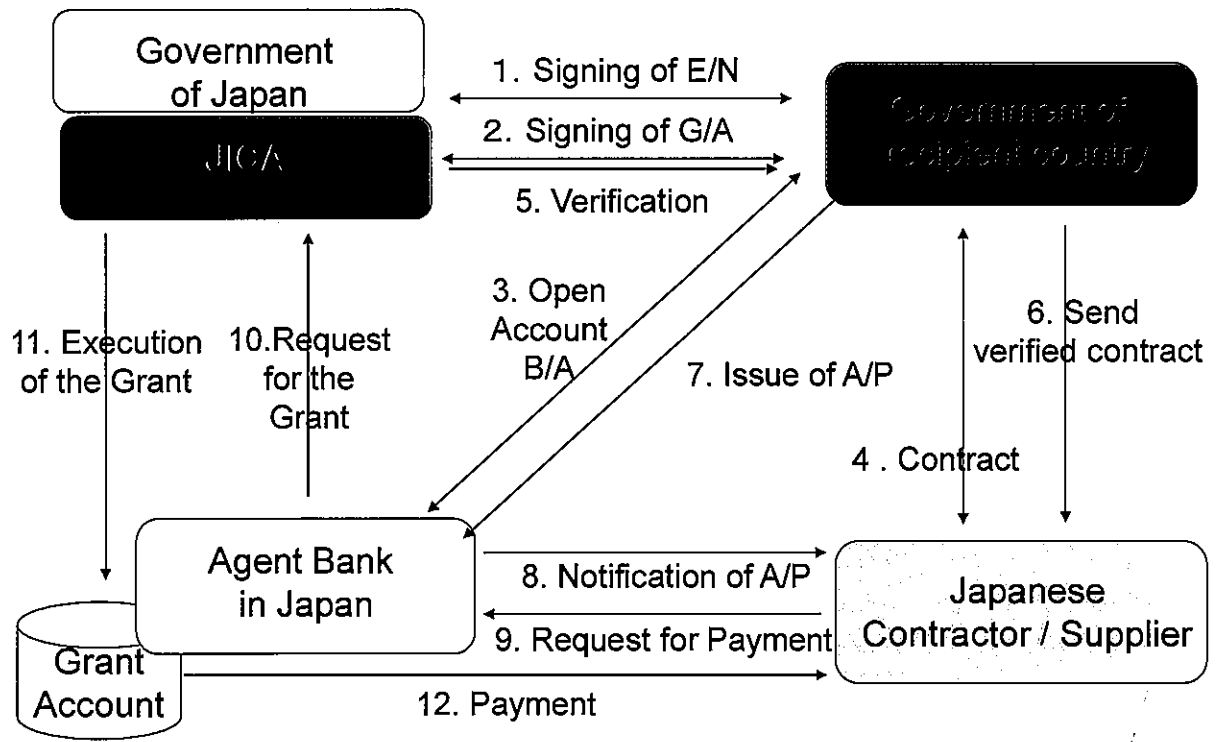


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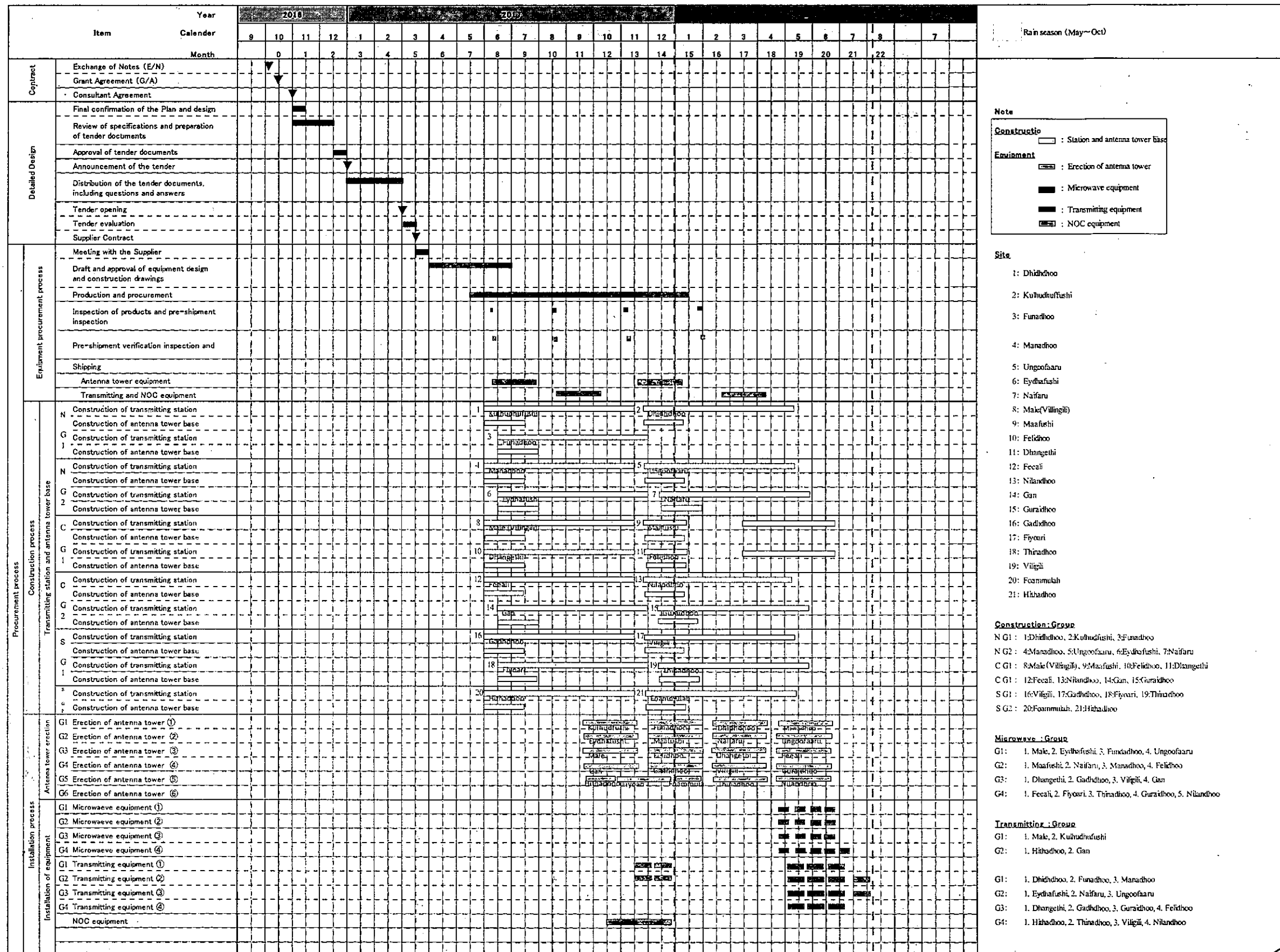
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Financial Flow of Japanese Grant



Expected Implementation Schedule



Rain season (May-Oct)

Note

Construction
 : Station and antenna tower base

Equipment
 : Erection of antenna tower
 : Microwave equipment
 : Transmitting equipment
 : NOC equipment

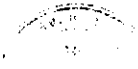
- Site**
- 1: Dhidhdhoo
 - 2: Kulhudhuffushi
 - 3: Funadhoo
 - 4: Manadhoo
 - 5: Ungoofaaru
 - 6: Eydhafushi
 - 7: Naifaru
 - 8: Maafushi
 - 9: Maafushi
 - 10: Felidhoo
 - 11: Dhangethi
 - 12: Fecali
 - 13: Nilandhoo
 - 14: Gan
 - 15: Guraidhoo
 - 16: Gadhdhoo
 - 17: Fiyoori
 - 18: Thiradhoo
 - 19: Viligili
 - 20: Foammulah
 - 21: Hithadhoo

- Construction Group**
- N G1 : 1:Dhidhdhoo, 2:Kulhudhuffushi, 3:Funadhoo
 N G2 : 4:Manadhoo, 5:Ungoofaaru, 6:Eydhafushi, 7:Naifaru
 C G1 : 8:Maafushi, 9:Maafushi, 10:Felidhoo, 11:Dhangethi
 C G2 : 12:Fecali, 13:Nilandhoo, 14:Gan, 15:Guraidhoo
 S G1 : 16:Viligili, 17:Gadhdhoo, 18:Fiyoori, 19:Thiradhoo
 S G2 : 20:Foammulah, 21:Hithadhoo

- Microwave Group**
- G1: 1. Maafushi, 2. Eydhafushi, 3. Funadhoo, 4. Ungoofaaru
 G2: 1. Maafushi, 2. Naifaru, 3. Manadhoo, 4. Felidhoo
 G3: 1. Dhangethi, 2. Gadhdhoo, 3. Viligili, 4. Gan
 G4: 1. Fecali, 2. Fiyoori, 3. Thiradhoo, 4. Guraidhoo, 5. Nilandhoo

- Transmitting Group**
- G1: 1. Maafushi, 2. Kulhudhuffushi
 G2: 1. Hithadhoo, 2. Gan
- G1: 1. Dhidhdhoo, 2. Funadhoo, 3. Manadhoo
 G2: 1. Eydhafushi, 2. Naifaru, 3. Ungoofaaru
 G3: 1. Dhangethi, 2. Gadhdhoo, 3. Guraidhoo, 4. Felidhoo
 G4: 1. Hithadhoo, 2. Thiradhoo, 3. Viligili, 4. Nilandhoo





Major Undertakings to be taken by Each Government

I. Major Undertakings to be taken by Recipient Government

1. Before the Tender

(Cost: Thousand MVR)

NO	Items	Deadline	In charge	Cost	Ref.
1	To open Bank Account (Banking Arrangement (B/A))	within 1 month after G/A	MoFT	366	
2	To approve IEE/EIA	before conclusion of G/A	EPA	550	
3	To implement EIA	before conclusion of G/A	PSM		
4	To secure the following lands 1) land for transmission station	before conclusion of G/A	MoHA/ PSM		
5	To obtain the planning, zoning, building permit	before notice of the tender document	MoHA/ PSM		
6	To clear, level and reclaim the following sites 1) the sites for transmission stations	before notice of the tender document	MoHA/ PSM	2,180	
7	Preparation of a DTTB Master Plan				
	1) Establishment of a broadcasting network				
	a) Study on coverage expansion to remote islands by preparation of a transmitting station site plan	before end of the preparatory survey	MoHA/ PSM		
	2) Frequency plan	during the preparatory survey	CAM		
	3) the schedules for DSO/ASO and simulcast	before conclusion of G/A	PSM		
	4) Assistance plan and budgetary measures for TV broadcasters	before end of the preparatory survey	MoHA/ PSM		
8	Preparation of DTTB migration plan				
	1) Plans to promote purchase of new TV receivers, assist poor households and dispose of disused analogue TV receivers	before DSO	PSM		
	2) Promotion of the purchase of TV receivers and import of DTTB-compatible equipment	before DSO	PSM		
	3) Study on Platform Equipment Plan				
	a) Equipment outside the scope of the Project	before end of the preparatory survey	MoHA/ PSM		
	4) Study on business model of DTTB platform including private broadcasters' participation to the platform	before conclusion of G/A	PSM		
9	Legal Framework and Guidelines				
	1) Amendment of broadcasting laws and regulations	before conclusion of G/A	MoHA/ Commission		
	2) Amendment of broadcasting-related laws and introduction of multiplexing license	before completion of the Project	MoHA/ Commission		
	a) Decree on establishment of the DBNO	before conclusion of G/A	MoHA		
	b) Establishment of the DBNO	before conclusion of G/A	MoHA/ PSM		



	c) Guidelines for issuance of DTTB licenses to join the DBNO	before conclusion of G/A	Commission		
	3) Licensing standards	before conclusion of G/A	Commission/CAM		
10	Equipment procurement and construction work				
	1) Study on use of existing properties	during the preparatory survey	MoHA/PSM		
11	Organizational and Human Resource Development				
	1) Study on Disaster-Prevention Broadcasting and Development of Organizational Structure and Human Resources for the Operation of EWBS	before DSO	MoHA/PSM		

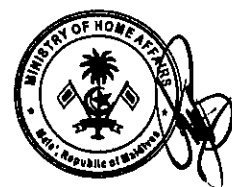
2. During the Project Implementation

(Cost: Thousand MVR)

NO	Items	Deadline	In charge	Cost	Ref.
1	To bear the following commissions to a bank of Japan for the banking services based upon the B/A				
	1) Advising commission of A/P	within 1 month after the signing of the contract	MoHA/PSM		
	2) Payment commission for A/P	every payment	MoFT	366	1-1
2	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country				
	1) Tax exemption and customs clearance of the products at the port of disembarkation	during the Project	PSM		
3	To accord Japanese nationals and/or physical persons of third countries whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work	during the Project	PSM	-	
4	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 and/or borne by its designated authority without using the Grant; Such customs duties, internal taxes and other fiscal levies mentioned above include VAT, commercial tax, income tax and corporate tax of Japanese nationals, resident tax, fuel tax, but not limited, which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract	during the Project	PSM	6,378	
5	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment	during the Project	PSM	-	
6	Equipment procurement and construction work				
	1) Providing power supply to all the Transmitting and Relay Stations	before equipment at the sites	PSM	798	
	2) Relocation and operational cost for Eydhafushi existing transmitting equipment	before equipment at the sites	PSM	350	
	3) Securing the space for installation of NOC equipment	before equipment at the sites	PSM	2,800	
	4) Providing backup power facility to NOC equipment	Before equipment at the sites	PSM	1,098	

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5)	Providing optical fiber connection to the designated transmitting stations	Before equipment at the sites	PSM		
6)	Securing sites for the installation of the equipment, material storing yard, temporary construction yard and waste disposal	before equipment at the sites	PSM		
7)	Removing designated equipment and obstacles from the Project site	before equipment at the sites	PSM	2,180	I-6
8)	Demolishing the existing antennas, feeders and foundation, and leveling the site	before equipment at the sites	PSM	2,180	2-6-7)
9)	Constructing the following facilities and install the equipment				
a)	Temporary roads within the sites for construction of the Transmitting and relay Stations	before equipment at the sites	PSM		
b)	Roads outside the sites if necessary	before equipment at the sites	PSM		
c)	Parking lots if necessary	before equipment at the sites	PSM		
10)	Installation of optical fiber cables for the programme transmission between Carrier's NOC and transmitting stations if necessary.	during the Project	PSM		
7	Organizational and Human Resource Development				
1)	Training of DBNO personnel	during the Project	PSM	800	
8	To implement EMP and EMOp	during the construction	PSM		
1)	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	PSM		
2)	To implement RAP (livelihood restoration program, if needed)	for a period based on livelihood restoration program	PSM		
3)	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 among MoHA, PSM 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)	PSM		

3. After the Project

NO	Items	Deadline	In charge	Cost	Ref.
1	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid 1) Allocation of maintenance cost 2) Operation and maintenance structure 3) Routine check/Periodic inspection	After completion of the construction	PSM	11,040	4
2	To implement EMP and EMOp	for a period based on EMP and EMOp	PSM		



	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 PSM and JICA.	for three years after the Project	PSM		
3	To secure the budget of programme transmission links manage by carriers	Before actual operation of the platform commencement	PSM	2,620	4

(B/A: Banking Arrangement, A/P: Authorization to pay, N/A: Not Applicable)

4. Estimated annual maintenance and operation costs for DBNO

Item		Total (MVR)
Employment cost	Based on the salary scale of PSM with 39 personnel.	5,810,000
Electric power cost	Based on the expenditure of PSM in 2014. The power costs for transmitting and relay stations are included in maintenance costs for equipment.	120,000
Maintenance costs for equipment	Maintenance costs for antenna towers and transmitting stations is based on the expenditure in 2014. For NOC equipment, based on the actual price of the equipment.	11,040,000
Optical fiber fees	Based on the hearings from CAM	2,620,000
Frequency license fees	Based on the existing license fees by CAM	3,250,000
Miscellaneous costs	For communication with transmitting stations and purchase of consumable goods, accounting for 10% of all expenditure except this item	3,500,000



II. Major Undertakings to be Covered by the Japanese Grant

NO	Items	Deadline	Cost Estimated (Million Japanese Yen)*	
1	To construct transmitting and relay stations and provide equipment 1) To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country Marine(Air) transportation of the products from Japan to the recipient country b) Internal transportation from the port of disembarkation to the project site 2) To construct facilities 3) To provide equipment with installation and commissioning	during the Project	Not open to the public	
2	To implement detailed design, tender support and construction supervision (Consultant)			
3	Contingencies			
	Total			

*; The cost estimates are provisional. This is subject to the approval of the Government of Japan.

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COMMUNICATIONS AUTHORITY OF MALDIVES

Ref: 165/JICA/2016/01 : ސަފުހާ ނަންބަރު

Date: 16 June 2016

Jotaro Tateyama
Leader
Project Survey Team for
The Project for the Digital Terrestrial Television
Broadcasting Network Development
Japan International Cooperation Agency

Dear Sir,

Terrestrial Broadcasting Frequencies for DTTB Network

In relation to the project on the development of the Digital Terrestrial Television Broadcasting (DTTB), this is to confirm that the terrestrial broadcasting frequencies as identified during the Project Survey, which are listed below, will be made available to the Digital Broadcasting Network Operator (DBNO) that will be established to operate the DTTB network.

Broadcasting Frequencies for the Phase 1 of the DTTB Project:

Channel No.	Frequency (MHz)
1	30
2	31
3	32
4	33
5	34

Channel No.	Frequency (MHz)
6	35
7	36
8	37
9	38
10	39

Yours sincerely


Ilyas Ahmed
Chief Executive





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

Organization Information

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

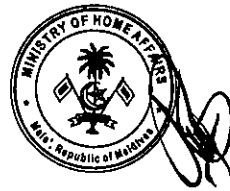
Outline of Grant Agreement:

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

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1: Project Description

1-1 Project Objective

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1-2 Necessity and Priority of the Project

- Consistency with development policy, sector plan, national/regional development plans and demand of target group and the recipient country.

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1-3 Effectiveness and the indicators

- Effectiveness by the project

Quantitative Effect (Operation and Effect indicators)		
Indicators	Original (Yr)	Target (Yr)
Qualitative Effect		

2: Project Implementation

2-1 Project Scope

Table 2-1-1a: Comparison of Original and Actual Location

Location	Original: (M/D) Attachment(s):Map	Actual: (PMR) Attachment(s):Map

Table 2-1-1b: Comparison of Original and Actual Scope

Items	Original	Actual
(M/D)	(M/D)	(PMR) Please state not only the most updated schedule but also other past revisions chronologically.



'Soft component' shall be included in 'Items'.	All change of design shall be recorded regardless of its degree.
--	--

(Sample)Table 2-1-1b: Comparison of Original and Actual Scope

Items	Original	Actual
1. Upgrading of the Kukum Highway	length 20km, single lane (3.47m*2), path(1.25m*2) Concrete Pavement 200mm (motor lane only)	length 20km, single lane (3.47m*2), path(1.00m*2) Concrete Pavement 200mm (motor lane only)
2. Replacement of Old Mataniko Bridge	Bridge length 40m, Width 9.5m, path(1.00m*2), compound steel box-girder bridge, Inverted T type-abutment spread foundation	Ditto

(Sample)Table 2-1-1b: Comparison of Original and Actual Scope

Items	Original	Actual
1. Outpatient Department	RC, Double Storey Ground floor: Consultation room 6 Reception Satellite Lab. Pharmacy, etc 1st floor: Consultation room 5 Dental Clinic 2	RC, Double Storey Ground floor: Consultation room 5 ditto
2. Operation Theatre, Casualty Unit, Maternity Ward	RC, Double Storey Ground Floor: Operation room 2 Casualty Unit 1st Floor: Maternity Ward 50 beds	ditto Maternity Ward 60 beds

(Sample)Table 2-1-1b: Comparison of Original and Actual Scope

Items	Original	Actual
1. Primary and Secondary Surveillance Radars at Chittagong Int'l Airport	i) OSR/SSR 1 set ii) RDP 1 set iii) VHF Transmitters 2 sets	Ditto
2. Access Control System for Dhaka Int'l Airport	1 set	Ditto
3. Doppler VOR/DME at Saidpur Airport	1 set	Ditto
4. Aerodrome Simulator for Civil Aviation Training Center	1 set	Ditto



5. Baggage Inspection System for Dhaka Int'l Airport	i) Hold Baggage Xray Inspectin system 7sets ii) Hold Baggage Explosive Trace Detecting System 7sets iii) Cabin Baggage Xray Inspection System 2sets	Ditto
6. Airport Fire Fighting Vehicles for Dhaka Int'l Airport	2 sets	3 sets

2-1-2 Reason(s) for the modification if there have been any.

(PMR)

2-2 Implementation Schedule
2-2-1 Implementation Schedule

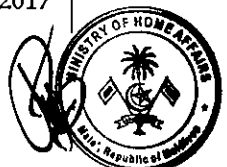
Table 2-2-1: Comparison of Original and Actual Schedule

Items	Original		Actual
	DOD	G/A	
[M/D]	(M/D)		(PMR) As of (Date of Revision)
'Soft component' shall be stated in the column of 'Items'.			Please state not only the most updated schedule but also other past revisions chronologically.
Project Completion Date*			

*Project Completion was defined as _____ at the time of G/ A.

(Sample)Table 2-2-1: Comparison of Original and Actual Schedule

Items	Original		Actual
	DOD	G/A	
Cabinet Approval	11/2015	-	-
E/N	12/2015	1/2016	24/1/2016
G/A	12/2015	1/2016	24/1/2016
Detailed Design	12/2015-4/2016	1/2016-5/2016	Amended 13/3/2017 1/2016-5/2016
Tender Notice	5/2016	5/2016	1/6/2016
Tender	6/2016	6/2016	15/7/2016
(Lot1) Construction Period	7/2016-11/2018	7/2016-11/2018	8/8/2016-30/11/2018
(Lot2) Installarion of Equipement	7/2016-6/2018	7/2016-6/2018	6/8/2016-30/60/2017



Project Completion Date	11/2018	11/2018	30/11/2018
Defect Liability Period	11/2019	11/2019	30/11/2019

*Project Completion was defined as Check-out of Construction work at the time of G/A.

2-2-2 Reasons for any changes of the schedule, and their effects on the project.

2-3 Undertakings by each Government

2-3-1 Major Undertakings
See Attachment 2.

2-3-2 Activities
See Attachment 3.

2-3-3 Report on RD
See Attachment 4.

2-4 Project Cost

2-4-1 Project Cost

Table 2-4-1a Comparison of Original and Actual Cost by the Government of Japan
(Confidential until the Tender)

Items	Cost (Million Yen)			
	Original	Actual	Original	Actual
Construction Facilities (or Equipment)	'Soft component' shall be included in 'Items'.			Please state not only the most updated schedule but also other past revisions chronologically.
Consulting Services	- Detailed design - Procurement Management - Construction Supervision			
Total				

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

Table 2-4-1b Comparison of Original and Actual Cost by the Government of XX

Items	Cost (Million USD)			
	Original	Actual	Original	Actual
				Please state not only the most



				updated schedule but also other past revisions chronologically.
Total				

Note: 1) Date of estimation:
2) Exchange rate: 1 US Dollar = (local currency)

(Sample)Table 2-4-1a Comparison of Original and Actual Cost by the Government of Japan
(Confidential until the Tender)

Items		Cost (Million Yen)		
	Original	Actual	Original ⁽¹⁾²⁾	Actual
Construction Facilities	1. Outpatient Department 2. Operation Theatre, Casualty Unit, Maternity Ward	Ditto Ditto	1,169.5	1,035.0
Equipment	1) Primary and Secondary Surveillance Radars at Chittagong Int'l Airport 2) Access Control System for Dhaka Int'l Airport 3) Doppler VOR/DME at Saidpur Airport 4) Aerodrome Simulator for Civil Aviation Training Center 5) Baggage Inspection System for Dhaka Int'l Airport 6) Airport Fire Fighting Vehicles for Dhaka Int'l Airport	Ditto	2,374.6	2,110.0
Consulting Services	- Detailed design - Procurement Management - Construction Supervision - Soft Component	Ditto	0.87	0.87
Total			3544.97	3145.87

Note: 1) Date of estimation: October, 2014
2) Exchange rate: 1 US Dollar = 99.93 Yen

(Sample)Table 2-4-1b Comparison of Original and Actual Cost by the Government of Bangladesh

Items		Cost (1,000 Taka)		
	Original	Actual	Original ⁽¹⁾²⁾	Actual
Dhaka International Airport	Modification of software of existing Rader Data Processing System	Ditto	8,000	9,240
	Provision of a partition, lighting, air conditioning and electric power supply at transfer hold baggage check point	Ditto	5,000	2,453



	Replacement of five doors in the international passenger terminal building	Ditto	4,000	5,340
Chittagong Int'l Airport	Preparation of the radar site including felling of trees, clearing and grabbing	Ditto	5,000	3,400
Total			22,000	20,433

Note: 1) Date of estimation: October, 2014
2) Exchange rate: 1 US Dollar = 0.887 Bangladesh Taka (local currency)

2-4-2 Reason(s) for the wide gap between the original and actual, if there have been any, the remedies you have taken, and their results.

(PMR)

2-5 Organizations for Implementation

2-5-1 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: (M/D)

Actual, if changed: (PMR)

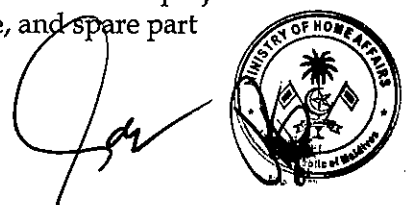
2-6 Environmental and Social Impacts

- The results of environmental monitoring as attached in [REDACTED] in accordance with Schedule 4 of the Grant Agreement.
- The results of social monitoring as attached [REDACTED] in accordance with Schedule 4 of the Grant Agreement.
- Information on the disclosed results of environmental and social monitoring to local stakeholders, whenever applicable.

3: Operation and Maintenance (O&M)

3-1 O&M and Management

- Organization chart of O&M
- Operational and maintenance system (structure and the number, qualification and skill of staff or other conditions necessary to maintain the outputs and benefits of the project soundly, such as manuals, facilities and equipment for maintenance, and spare part stocks etc)



Original: (M/D)
Actual: (PMR)

3-2 O&M Cost and Budget

- The actual annual O&M cost for the duration of the project up to today, as well as the annual O&M budget.

Original: (M/D)

4: Precautions (Risk Management)

- Risks and issues, if any, which may affect the project implementation, outcome, sustainability and planned countermeasures to be adapted are below.

Original Issues and Countermeasure(s): (M/D)	
Potential Project Risks	Assessment
1.	Probability: H/M/L
(Description of Risk)	Impact: H/M/L
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action during the Implementation:
	Contingency Plan (if applicable):
2.	Probability: H/M/L
(Description of Risk)	Impact: H/M/L
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action during the Implementation:
	Contingency Plan (if applicable):



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3. (Description of Risk)	Probability: H/M/L
	Impact: H/M/L
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action during the Implementation:
	Contingency Plan (if applicable):
Actual issues and Countermeasure(s)	
(PMR)	

5: Evaluation at Project Completion and Monitoring Plan

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 for 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.

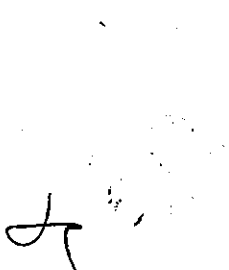


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Attachment

1. Project Location Map
2. Undertakings to be taken by each Government
3. Monthly Report
4. Report on RD
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)
(Final Report Only)



Monitoring sheet on price of specified materials

1. Initial Conditions (Confirmed)

Item No.	Item Name	Unit	Quantity	Unit Price	Total Price	Remarks
1	Item 1	●●t	●	●	●●	●
2	Item 2	●●t	●	●	●●	●
3	Item 3					
4	Item 4					
5	Item 5					

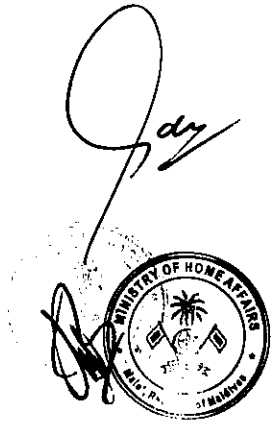
2. Monitoring of the Unit Price of Specified Materials

(1) Method of Monitoring : ●●

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

Item No.	Item Name	Unit	Quantity	Unit Price	Total Price	Remarks
1	Item 1					
2	Item 2					
3	Item 3					
4	Item 4					
5	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%)	



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Environmental Check List

Category	Environmental Item	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)
1 Permits and Explanation	(1) EIA and Environmental Permits	(a) Have EIA reports been already prepared in official process? (b) Have EIA reports been approved by authorities of the host country's government? (c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied? (d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?	(a) N (b) N (c) N (d) N	PSM has applied for screening from the Environmental Protection Agency (EPA), as a result of which there is an instruction to carry out an EIA at nine sites, and for the other 12 sites a survey is not necessary and the project can proceed. PSM has concluded a contract with an environmental consultant to implement the EIA.
	(2) Explanation to the Local Stakeholders	(a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the local stakeholders? (b) Have the comment from the stakeholders (such as local residents) been reflected to the project design?	(a) Y (b) Y	(a) The explanations and the opinion hearings with the stakeholders and residents are being carried out by PSM and the local registered consultant in accordance with the process of the EIA approval procedures. (b) The comments of stakeholders meeting such as safety during construction, request for communication program, etc. have been reflected to the project design.
	(3) Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?	(a) Y	(a) The examination of alternative plans has been conducted.
2 Mitigation Measures	(1) Air Quality	(a) Do air pollutants, (such as sulphur oxides (SOx), nitrogen oxides (NOx), and soot and dust) emitted from the proposed infrastructure facilities and ancillary facilities comply with the country's emission standards and ambient air quality standards? Are any mitigating measures taken? (b) Are electric and heat source at accommodation used fuel which emission factor is low?	(a) Y (b) N/A	(a) There will be no emissions from the completed facilities. Emissions during construction will be controlled by monitoring. (b) Normally the public electricity supply will be used. A low fuel cost generator will be used as the standby electrical power generator. However, in some cases it may be difficult to select the fuel locally.



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Category	Environmental Item	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)
(2) Water Quality	(a) Do effluents or leachates from various facilities, such as infrastructure facilities and the ancillary facilities comply with the country's effluent standards and ambient water quality standards?	(a) Y	(a) Y	(a) During service it will not be necessary to discharge wastewater, and it will not be carried out. Rainwater will flow downstream naturally. During excavation of the foundations during construction, drainage will be carried out. Drainage will be carried out by pumping up groundwater and discharging it, so there is a possibility that the turbidity of the nearby groundwater will increase due to excavated soil from the construction site being mixed into it, so the turbidity will be controlled before discharge.
(3) Waste	(a) Are wastes from the infrastructure facilities and ancillary facilities properly treated and disposed of in accordance with the country's regulations?	(a) Y	(a) Y	(a) Waste will not arise during service. During construction there is a possibility that tree roots or waste deposited in reclaimed land will be excavated. The waste will be separated from the excavated soil, and transported to a waste facility for disposal by a specific disposal method. Also, the excavated soil will be transported to a specified soil disposal site.
(4) Soil Contamination	(a) Are adequate measures taken to prevent contamination of soil and groundwater by the effluents or leachates from the infrastructure facilities and the ancillary facilities?	(a) Y	(a) Y	(a) Soil contamination will not arise during service. There is a possibility of occurrence of small scale soil contamination as a result of oil leakage from construction machinery and vehicles during construction. Inspection for oil leaks and repair will be carried out on vehicles and machines. If an oil leakage occurs, the polluted soil will be collected, transported to a specified waste disposal site, and disposed of.
(5) Noise and Vibration	(a) Do noise and vibrations comply with the country's standards?	(a) Y	(a) Y	(a) During service, noise and vibration will not occur. Noise and vibration will occur during construction, mainly associated with foundation excavation. The Maldives does not have a set criterion, but the noise and vibration levels will be maintained below the criteria of the adjacent countries when carrying out construction.
(6) Subsidence	(a) In the case of extraction of a large volume of groundwater, is there a possibility that the extraction of groundwater will cause subsidence?	(a) N	(a) N	(a) The ground is reef limestone with thin topsoil, and this is not a region of wide area ground subsidence. Also, according to the site investigation, direct foundations or piled foundations will be installed in locations having sufficient bearing capacity, so ground subsidence will not occur.
(7) Odour	(a) Are there any odour sources? Are adequate odour control measures taken?	(a) N	(a) N	(a) The foundation excavation will be in limestone ground or land reclaimed with beach sand, and the site investigation did not find material that could be the source of odours, so odours will not arise during construction or during service.

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Category	Environmental Item	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)
	(1) Protected Area	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	(a) N	(a) The sites are not located in protection areas. Some sites are close to or adjacent to Environmental Sensitive Areas, Environmental Protection Zones, or coastal protection forests, so during construction measures will be taken to reduce the effect (reduction of the effect of exhaust gases, reduction of the effect on groundwater quality associated with drainage). Also, alternative tree planting will be carried out for felled trees in accordance with the regulations, and during service these planted trees will be cultivated and managed, so that the effect on protection areas will be reduced.
3 Natural Environment	(2) Ecosystem	(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)? (b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions? (c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem? (d) Is there a possibility that the amount of water (e.g., surface water, groundwater) used by the project will adversely affect aquatic environments, such as rivers? Are adequate measures taken to reduce the impacts on aquatic environments, such as aquatic organisms?	(a) Y (b) N (c) Y (d) N	(a) At nine (out of 21) target sites, felling of natural tropical forests or secondary forests will be carried out. During construction measures to reduce the effect on the surroundings will be taken (reduction of the effect of exhaust gas, reduction of the effect of drainage on groundwater level lowering and water quality, alternative tree planting and cultivation associated with deforestation). (b) At Felidhoo (Vaavu Atoll), there is a protected old tree 70m from the site, so measures will be taken during construction to reduce the effect (reduction of the effect of exhaust gas, reduction of the effect of drainage on the groundwater level lowering and water quality). (c) No protected flora and fauna have been found on the target, but as a result of felling of forests the habitats and activity areas of the flora and fauna will be reduced. Measures will be taken to reduce the effect on the surrounding forest in accordance with (a) above (reduction of the effect of exhaust gas, reduction of the effect of drainage on groundwater level lowering and water quality, alternative tree planting and cultivation associated with deforestation). (d) Water will be used during the drainage operations associated with construction of the foundations, but there will be no effect on river environment and on aquatic organisms.
	(3) Hydrology	(a) Is there a possibility that hydrologic changes due to the project will adversely affect surface water and groundwater flows?	(a) N	(a) Drainage operations will be carried out associated with the construction of foundations, as a result of which there will be a temporary drawdown of the groundwater levels in the area surrounding the site, but it will not affect the flow of surface water or groundwater.






Category	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)
(4) Topography and Geology	(a) Is there a possibility the project will cause large-scale alteration of the topographic features and geologic structures in the project site and surrounding areas? (a) Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimise the impacts caused by the resettlement? (b) Is adequate explanation on compensation and resettlement assistance given to affected people prior to resettlement? (c) Is the resettlement plan, including compensation with full replacement costs, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement? (d) Is the compensations going to be paid prior to the resettlement? (e) Is the compensation policies prepared in document? (f) Does the resettlement plan pay particular attention to vulnerable groups or people, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous people? (g) Are agreements with the affected people obtained prior to resettlement? (h) Is the organisational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan? (i) Are any plans developed to monitor the impacts of resettlement? (j) Is the grievance redress mechanism established?	(a) N (a) N/A (b) N/A (c) N/A (d) N/A (e) N/A (f) N/A (g) N/A (h) N/A (i) N/A (j) N/A	(a) The target sites are flat ground several meters above sea level, and there will be no change to the topography or geological structure. (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) There will be no resettlement of residents. Necessary lands are ensured by the PSM.
4 Social Environment			
(1) Resettlement	(a) Is there a possibility that the project will adversely affect the living conditions of inhabitants? Are adequate measures considered to reduce the impacts, if necessary?	(a) Y	(a) On the islands with target sites some of the roads are narrow, so the movement of the residents may be hindered due to transport of materials and equipment, temporary storage of materials and equipment, and the construction site. The construction plan will be explained to the Island Committees and residents, safety measures, etc., will be discussed, and the residents will be informed.
(2) Living and Livelihood	(a) Is there a possibility that the project will damage the local archaeological, historical, cultural, and religious heritage? Are adequate measures considered to protect these sites in accordance with the country's laws?	(a) Y	(a) Historical assets have been identified at two locations on the islands with target sites, but they are distant from the sites, and will not be affected.
(3) Heritage			

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The image shows a handwritten signature in black ink over a circular official stamp. The stamp contains the text 'MINISTRY OF HOME AFFAIRS' and 'REPUBLIC OF MALDIVES' around a central emblem featuring a palm tree and a flag. There is also a smaller signature or mark to the right of the stamp.

Category	Environmental Item	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)
	(4) Landscape	(a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken? (b) Is there a possibility that landscape is spoiled by construction of high-rise buildings such as huge hotels?	(a) N (b) N	Several towers of telecom carriers have already being constructed on each of the target islands, so the addition of one tower will not damage the landscape.
	(5) Ethnic Minorities and Indigenous People	(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous people? (b) Are all of the rights of ethnic minorities and indigenous people in relation to land and resources respected?	(a) N/A (b) N/A	There are no distinct ethnic minorities or indigenous peoples on the islands with target sites.
	(6) Working Conditions	(a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project? (b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials? (c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health programme, and safety training (including traffic safety and public health) for workers etc.? (d) Are appropriate measures taken to ensure that security guards involved in the project not to violate safety of other individuals involved, or local residents?	(a) Y (b) Y (c) Y (d) Y	(a) The compliance will be carried out. (b) Measures to prevent work-related accidents will be implemented. (c) A labour health and safety plan will be formulated, notified to the workers, and implemented. (d) A guard will be deployed to provide guidance.
5 Other	(1) Impacts during Construction	(a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and waste)? (b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts? (c) If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts?	(a) Y (b) Y (c) Y	(a) Concentration of construction machinery will be avoided, the hours of high noise and vibration operations will be set, labour safety measures and mitigation measures will be implemented. (b) For the foundation excavation which will have the greatest effect on the natural environment during construction, in particular for the drainage operations, a drainage plan will be submitted to the EPA in accordance with the Dewatering Regulations, and a permit obtained. Measures based on the instructions from the EPA and mitigation measures to reduce the impact will be implemented. (c) Mitigation measures will be implemented such as formulation of a plan to mitigate traffic obstruction for the residents due to the construction,

Category	Environmental Item	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)
	(2) Monitoring	<p>(a) Does the proponent develop and implement monitoring programme for the environmental items that are considered to have potential impacts?</p> <p>(b) What are the items, methods and frequencies of the monitoring programme?</p> <p>(c) Does the proponent establish an adequate monitoring framework (organisation, personnel, equipment, and adequate budget to sustain the monitoring framework)?</p> <p>(d) Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities?</p>	<p>(a) Y</p> <p>(b) Y</p> <p>(c) Y</p> <p>(d) N</p>	<p>(a) The project promoter PSM will prepare an EIA Management Department by employing staff</p> <p>(b) The environmental impact will mainly arise during the construction period. Items to reduce the environmental impact of the construction will be set. Construction will be carried out at 21 locations, and the items will be adjusted in accordance with the construction period at each location.</p> <p>(c) This will be implemented by the PSM management.</p> <p>(d) Although not currently prescribed, this will be prescribed in the environmental decision documents of the EPA.</p>
6 Note	<p>Reference to Checklist of Other Sectors</p>	<p>(a) Where necessary, pertinent items described in the Roads, Railways and Bridges Checklists should also be checked (e.g., projects including access roads to the infrastructure facilities).</p> <p>(b) For projects, such as installation of telecommunication cables, power line towers, and submarine cables, where necessary, pertinent items described in the Power Transmission and Distribution Lines Checklist should also be checked.</p>	<p>(a) N</p> <p>(b) Y</p>	<p>(a) Roads, railways, and bridges are not relevant.</p> <p>(b) A checklist for electrical power transmission, transforming, and distribution has been confirmed.</p>
	<p>Note on Using Environmental Checklist</p>	<p>(a) If necessary, the impacts to transboundary or global issues should be confirmed (e.g., the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, or global warming).</p>	<p>(a) Y</p>	<p>(a) There is a possibility of an effect from the rise in sea water levels associated with global warming, but the facility design has taken a tsunami into a consideration.</p>

Note 1) Regarding the term 'Country's Standards' mentioned in the above table, in the event that environmental standards in the country where the project is located diverge significantly from international standards, appropriate environmental considerations are required to be made. In cases where local environmental regulations are yet to be established in some areas, considerations should be made based on comparisons with appropriate standards of other countries (including Japan's experience).

Note 2) Environmental checklist provides general environmental items to be checked. It may be necessary to add or delete an item taking into account the characteristics of the project and the particular circumstances of the country and locality in which the project is located.

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Handwritten signature and official stamp of the Ministry of Home Affairs, Government of Japan. The stamp includes the text 'MINISTRY OF HOME AFFAIRS' and 'GOVERNMENT OF JAPAN'.

Environmental Management Plan / Environmental Monitoring Plan

Environmental Item	Item	Point	Frequency	Responsible Agency
Air Quality	SPM, CO, NO ₂ , SO ₂	Adjacent to each site	5 times per site	Construction contractor PSM
Water Pollution	BOD, COD, SS pH, EC, turbidity	Drainage during construction Shallow wells near each site	5 times per site	Construction contractor PSM
Waste	Status of management of waste temporary placement area Status of transfer to waste disposal site Status of levelling of excavated soil disposal site	Waste material temporary placement area Waste disposal site Soil disposal site	5 times per site	Construction contractor PSM
Soil Contamination	Status of inspection and repair of oil leaks Status of processing of oil leak areas	Construction sites, construction machinery and vehicle storage sites	5 times per site	Construction contractor PSM
Noise and Vibration	Noise and vibration	Adjacent to each site	5 times per site	Construction contractor PSM
Protected Area	Status of implementation of construction management, alternative tree planting and cultivation by monitoring drainage and exhaust operations, water quality, groundwater levels, etc., in accordance with the specific mitigation measures. Status of ESAs, EPZs, and coastal greenbelt close to the sites	ESAs, EPZs, and coastal greenbelt close to the sites	5 times per site Alternative tree planting and cultivation in the case of tree felling once in 3 years	Construction contractor PSM
Ecosystem	Status of implementation of mitigation measures (same as for protected areas) Status of protected trees and surrounding woods close to the sites	Each site, and protected trees, woods, and forest areas close to the sites	5 times per site Alternative tree planting and cultivation in the case of tree felling once in 3 years	Construction contractor PSM
Living and Livelihood	Status of management of traffic obstruction of residents due to the construction	Near each site	5 times per site	Construction contractor PSM
Working Conditions	Status of health and safety guidance Status of use of worker safety equipment	Each site	5 times per site	Construction contractor PSM
Accident	Status of implementation of safety measures Status of implementation of safety measures for the nearby residents	Each site	5 times per site	Construction contractor PSM

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Environmental and Social Monitoring Form

1. Explanation for Permit, Residents

Monitoring Item	Monitoring Results during Report Period
e.g.) Responses/Actions to Comments and Guidance from Government Authorities	

2. Mitigation Measures

– Air Quality (Emission Gas / Ambient Air Quality)

Measurement during construction period and during service (confirmation of recovery)

Item (Unit)	Measured Value (Mean)	Measured Value (Max.)	Country's Standards (Sri Lanka) $\mu\text{g}/\text{m}^3$	Referred International Standards	Remarks (Measurement Point, Frequency, Method, etc.)
CO			30,000 (1 hr)	30,000 (1 hr)	5 times per site
NO ₂			250 (1 hr)	200 (1 hr)	5 times per site
SO ₂			200 (1 hr)	20 (24 hrs)	5 times per site
SPM (suspended particulate matter)			500 (1 hr)	50 (24 hrs)	5 times per site

– Water Quality (Effluent/Wastewater/Ambient Water Quality) **Measurement during construction period and during service (confirmation of recovery)**

Item (Unit)	Measured Value (Mean)	Measured Value (Max.)	Country's Standards	Referred International Standards	Remarks (Measurement Point, Frequency, Method, etc.)
BOD			Check the water quality of the nearby shallow wells, and adjust mainly the turbidity of the wastewater to that level or lower.		5 times per site
COD					5 times per site
SS (suspended solids)					5 times per site

Check the water quality (pH, EC, turbidity, BOD, COD, SS) of the nearby shallow wells, and adjust mainly the turbidity of the wastewater to that level or lower.

– Waste **Monitoring during the construction period**

Monitoring Item	Monitoring Results during Report Period
Status of disposal of landfill waste excavated during the foundation excavation	
Status of disposal of surplus excavation spoil	

– Noise / Vibration **Measurement during construction period and during service (confirmation of recovery)**



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Item (Unit)	Measured Value (Mean)	Measured Value (Max.)	Country's Standards (Sri Lanka)	Referred International Standards (Japan)	Remarks (Measurement Point, Frequency, Method, etc.)
Noise level			Daytime: 75dB Night time: 45 dB	Daytime: 60dB Night time: 40 dB Construction: 85 dB	5 times per site
Vibration level			2.0 mm/sec	Daytime: 60dB Night time: 55 dB Construction: 75dB	5 times per site

3. Natural Environment

– Protected Area **Monitoring during construction period and during service**

Monitoring Item	Monitoring Results during Report Period
Status of implementation of mitigation measures at the site	
Status of the protection area close to the site	
Status of implementation and cultivation of alternative tree planting	

– Ecosystem **Monitoring during construction period and during service**

Monitoring Item	Monitoring Results during Report Period
Status of implementation of mitigation measures at the site	
Status of protected trees and forests near the site	
Status of implementation and cultivation of alternative tree planting	

4. Social Environment

– Living and Livelihood **Monitoring during construction period**

Monitoring Item	Monitoring Results during Report Period
Status of management of traffic construction for the residents due to the construction	

– Working Conditions **Monitoring during the construction period**

Monitoring Item	Monitoring Results during Report Period
Status of safety and health guidance on the construction site	
Status of use of labour safety equipment	

– Accident **Monitoring during the construction period**

Monitoring Item	Monitoring Results during Report Period
Status of implementation of safety measures on the construction site	
Status of implementation of safety measures for the nearby residents	

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資料-6 環境社会配慮関係資料

添付資料 6 環境社会配慮関係資料

(1) 指定保護動植物のリスト

(a) 保護鳥類 (70 種)

No.	一般名 (英語名)	学術名	現地名	IUCN による分類
1	Asian Koel	<i>Eudynamys scolopacea scolopacea</i>	Dhivehi Kovel	
2	Audubon's Shearwater	<i>Puffinus lherminieri</i>	Dhivehi Hoagulhaa	
3	Black Bittern	<i>Dupetor flavicollis</i>	Kalhu Raabondhi	
4	Black Headed Heron	<i>Ardea melanocephala</i>	Noo Maakanaa	
5	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	Raabondhi	
6	Black-Headed Gull	<i>Larus ridibundus</i>	Boakalhu Gohorukey	
7	Black-Naped Tern	<i>Sterna sumatrana</i>	Kirudhooni	
8	Black-Tailed Godwit	<i>Limosa limosa</i>	Eshunga Ilolhi	Near Threatened
9	Black-Winged Stilt	<i>Himantopus himantopus</i>	Theyravaa Ilolhi	
10	Bodu Gaadhooni	<i>Sterna bergii</i>	Great Crested Tern	
11	Bridled Tern	<i>Sterna anaethetus</i>	Vaali	
12	Brown Booby	<i>Sula leucogaster</i>	Kalhu Maadhooni	
13	Brown Noddy	<i>Anous stolidus</i>	Maaranga	
14	Caspian Tern	<i>Sterna caspia</i>	Miyaremu Dhooni	
15	Cattle Egret	<i>Bubulcus ibis</i>	Iruvaihudhu	
16	Central Maldivian Heron	<i>Butorides striatus didii phillipsi</i>	Medhuraajjethere Raabondhi	
17	Common Coot	<i>Fulica atra</i>	Salvaa Dhooni	
18	Common Greenshank	<i>Tringa nebularia</i>	Chon Chon Ilolhi	
19	Common Moorhen	<i>Gallinula chloropus</i>	Olhuvalu Kanbili/Kulhee Kanbili	
20	Common Ringed Plover	<i>Charadrius hiaticula</i>	Angoti Bondana	
21	Common Tern	<i>Sterna hirundo</i>	Valla	
22	Crab Plover	<i>Dromas ardeola</i>	Theyravaa/Moalha Lunbo	
23	Curlew Sandpiper	<i>Calidris ferruginea</i>	Bondana Ilolhi	Near Threatened
24	Eurasian Spoonbill	<i>Platalea leucorodia</i>	Dheyfaiy Dhooni	
25	Ferruginous Pochard	<i>Aythya nyroca</i>	Rathu Reyru	Near Threatened
26	Flesh-Footed Shearwater	<i>Puffinus carneipes</i>	Maa Hoagulhaa	
27	Garganey	<i>Anas querquedula</i>	Kunburu Reyru	
28	Glossy Ibis	<i>Plegadis falcinellis</i>	Kalhu Bulhithunbi	
29	Great Egret	<i>Casmerodius albus</i>	Lagnaa	
30	Great Frigatebird	<i>Fregata minor</i>	Maahoara	
31	Greater Flamingo	<i>Phoenicopterus ruber</i>	Gudugudaa Dhooni	
32	Greater Sand Plover	<i>Charadrius leschenaultii</i>	Valu Bondana	
33	Grey Plover	<i>Pluvialis squatarola</i>	Alaka	
34	Gull-Billed Tern	<i>Gelochelidon nilotica</i>	Kanifulhu Dhooni	
35	House Sparrow	<i>Passer domesticus</i>	Kurulla Dhooni	
36	Jack Snipe	<i>Lymnocyptes minimus</i>	Onna Ilolhi	

No.	一般名 (英語名)	学術名	現地名	IUCN による分類
37	Kentish Plover	<i>Charadrius alexandrinus</i>	Kiru Bondana	
38	Lesser Crested Tern	<i>Sterna bengalensis</i>	Ainmathee Gaadhooni	
39	Lesser Frigatebird	<i>Fregata ariel</i>	Hoara	
40	Lesser Golden Plover	<i>Pluvialis dominica</i>	Funamaa Dhushin	
41	Lesser Noddy	<i>Anous tenuirostris</i>	Kurangi	
42	Lesser Sand Plover	<i>Charadrius mongolus</i>	Kuda Bondana	
43	Maldivian Little Heron	<i>Butorides striatus albidulusi</i>	Dhivehi Raabondhi	
44	Maldivian Pond Heron	<i>Ardeola grayii phillipsi</i>	Huvadhoon Raabondhi	
45	Maldivian Water Hen	<i>Amaurornis phoenicurus maldivus</i>	Dhivehi Kanbili	
46	Marsh Sandpiper	<i>Tringa stagnatilis</i>	Furedhdhe Ilohi	
47	Masked Booby	<i>Sula dactylatra</i>	Hudhumaa Dhooni	
48	Northern House Martin	<i>Delichon urbica</i>	Rahmathee forike	
49	Northern Shoveler	<i>Anas clypeata</i>	Reyru	
50	Pacific Golden Plover	<i>Pluvialis fulva</i>	Bileymaa Dhushin	
51	Pallas's Gull	<i>Larus ichthyaetus</i>	Gohorukey	
52	Purple Heron	<i>Ardea pupurea</i>	Dhanbu Maakanaa	
53	Red-footed Booby	<i>Sula sula</i>	Maa Dhooni	
54	Red-Throated Pipit	<i>Anthus cervinus</i>	Mushi Fenfoah Dhooni	
55	Roseate Tern	<i>Sterna dougallii</i>	Valla	
56	Ruddy Turnstone	<i>Arenaria interpres</i>	Rathafai	
57	Saunders's Tern	<i>Sterna saundersi</i>	Bondhu Dhooni	
58	Sooty Tern	<i>Sterna fuscata</i>	Beyndu	
59	Spot-billed Pelican	<i>Pelecanus philippensis</i>	Girubaa Dhooni	Near Threatened
60	Tree Pipit	<i>Anthus trivialis</i>	Dhon Fenfoah dhooni	
61	Watercock	<i>Gallicrex cinerea</i>	Kulhee Kukulhu	
62	Wedge-Tailed Shearwater	<i>Puffinus pacificus</i>	Bodu Hoagulhaa	
63	Western Reef Egret	<i>Egretta gularis</i>	Bodu Raabondhi	
64	Whimbrel	<i>Numenius phaeopus</i>	Bulhithunbi	
65	Whiskered Tern	<i>Chlidonias hybridus</i>	Valhoa Dhooni	
66	White Tern	<i>Gygis alba</i>	Dondheeni	
67	White-Tailed Tropicbird	<i>Phaethon lepturus</i>	Dhandifulhu Dhooni	
68	Wilson's Storm-petrel	<i>Oceanites oceanicus</i>	Kandu Kanbaa	
69	Yellow Bittern	<i>Ixobrychus sinensis</i>	Dhon Raabondhi	
70	Yellow Wagtail	<i>Motacilla flava</i>	Fenfoah Dhooni	

環境保護保全法(4/93)に基づく保護鳥、売買・捕獲保持の禁止

出所：EPA 資料、Protected Bird of Maldives 2010

(b) 保護鳥類追加 (33 種)

No.	一般名 (英語名)	学術名	IUCN による分類
1	White-eyed Gull	LaridaeLarusleucophthalmus	Near Threatened
2	Eurasian Curlew	ScolopacidaeNumenius arquata	Near Threatened
3	Sociable Lapwing	CharadriidaeVanellus gregarius	Critically Endangered
4	Pallid Harrier	AccipitridaeCircus macrourus	Near Threatened

No.	一般名 (英語名)	学術名	IUCN による分類
5	Brown-Headed Gull	LaridaeLarus brunnicephalus	
6	Heuglin's Gull	LaridaeLarus heuglini	
7	Yellow-legged Gull/Caspian Gull	LaridaeLarus cachinnans	
8	Streaked Shearwater	ProcellariidaeCalonectris leucomelas	Near Threatened
9	Grey Heron	ArdeidaeArdea cinerea	
10	Little Egret	ArdeidaeEgretta garzetta	
11	Great Bittern	ArdeidaeBotaurus stellaris	
12	Cinnamon Bittern	ArdeidaeIxobrychus cinnamomeus	
13	Fulvous Whistling Duck	AnatidaeDendrocygna bicolor	
14	Tufted Duck	AnatidaeAythya fuligula	
15	Common Teal	AnatidaeAnas crecca	
16	Northern Pintail	AnatidaeAnas acuta	
17	Barn Swallow	HirundinidaeHirundo rustica	
18	Sand Martin	HirundinidaeRiparia riparia	
19	Pallid Swift	ApodidaeApus pallidus	
20	Common Swift	ApodidaeApus apus	
21	House Swift	ApodidaeApus affinis	
22	Grey Wegtail	MotacillidaeMotacilla cinerea	
23	Common Buzzard	AccipitridaeButeo buteo	
24	Oriental Honey- Buzzard	AccipitridaePernis ptilorhynchus	
25	Black-winged Kite	AccipitridaeElanus caeruleus	
26	Amur Falcon	FalconidaeFalco amurensis	
27	Lesser Kestrel	FalconidaeFalco naumanni	
28	Eurasian Hobby	FalconidaeFalco subbuteo	
29	Common Kestrel	FalconidaeFalco tinnunculus	
30	Osprey	PandionidaePandion haliaetus	
31	Marsh Harrier	AccipitridaeCircus aeruginosus	
32	Montagu's Harrier	AccipitridaeCircus pygargus	Near Threatened
33	Bee-eater	MeropidaeMerops apiaster	Near Threatened

出所：EPA 資料、Protected Bird List 2013

(c) 海生生物 (漁獲、売買、保持の禁止 10 種)

No.	一般名 (英語名)
1	Black Corals
2	Stony Corals
3	Triton and Trochus Shells
4	Pearl Oysters
5	Lobsters
6	Napoleon Wrasses
7	Sea Turtles
8	Whale Sharks
9	Dolphins and Whales
10	Sharks

出所：EPA 資料、Protected Marine Spaces in the Maldives

(d) 海生生物（売買禁止 11 種）

No.	一般名（英語名）
1	Black Corals
2	Stony Corals
3	Triton and Trochus Shells
4	Pearl Oysters
5	Lobsters
6	Moray Eels
7	Puffer Fish
8	Parrot Fish
9	Skates and Rays
10	Sea Turtles
11	Dolphins and Whales

出所：EPA 資料、Protected Marine Spaces in the Maldives

(e) 海生生物及び製品（輸出禁止 22 種）

No.	一般名（英語名）
1	Bait fishes (used for pole line fishing)
2	Big eye scad (less than 6 inches)
3	Black coral
4	Black coral necklaces
5	Turtle shells
6	Boulder coral
7	Branching coral
8	Conch (triton) shell
9	Coral
10	Whales
11	Dolphin
12	Eels
13	Lobster
14	Lobster meat
15	Mother of pearl shells
16	Parrot fish
17	Puffer fish
18	Ray skin
19	Rays
20	Trochus
21	Turtle
22	Turtle shell products

出所：EPA 資料、State of the Environment Maldives 2011

(f) IUCN 分類

EPA 資料では IUCN 分類についての記述はない。モ国の哺乳類の IUCN 分類では以下が記述されている。（https://en.wikipedia.org/wiki/List_of_mammals_of_the_Maldives）

1) Order: Sirenia (manatees and dugongs)

- Family: Dugongidae
 - Genus: Dugong
 - Dugong *Dugong dugon* VU

2) Order: Chiroptera (bats)

- Family: Pteropodidae (flying foxes, Old World fruit bats)
 - Subfamily: Pteropodinae
 - Genus: Pteropus
 - Indian Flying-fox *Pteropus giganteus* LR/lc
 - Small Flying-fox *Pteropus hypomelanus* LR/lc

3) Order: Cetacea (whales)

- Suborder: Mysticeti
 - Family: Balaenopteridae
 - Subfamily: Balaenopterinae
 - Genus: *Balaenoptera*
 - Minke Whale *Balaenoptera acutorostrata* LR/nt
 - Bryde's Whale *Balaenoptera edeni* DD
 - Sei whale *Balaenoptera borealis* EN
 - Fin Whale *Balaenoptera physalus* EN
 - Blue Whale *Balaenoptera musculus* EN
 - Subfamily: Megapterinae
 - Genus: *Megaptera*
 - Humpback Whale *Megaptera novaeangliae* CR
- Suborder: Odontoceti
 - - Family: Physeteridae
 - Genus: *Physeter*
 - Sperm Whale *Physeter macrocephalus* VU
 - Superfamily: Platanistoidea
 - Family: Kogiidae
 - Genus: *Kogia*
 - Pygmy Sperm Whale *Kogia breviceps* LR/lc
 - Family: Ziphiidae
 - Subfamily: Hyperoodontinae
 - Genus: *Indopacetus*
 - Longman's Beaked Whale *Indopacetus pacificus* DD
 - Family: Delphinidae (marine dolphins)
 - Genus: *Stenella*
 - Pantropical Spotted Dolphin *Stenella attenuata* LR/cd
 - Striped Dolphin *Stenella coeruleoalba* LR/cd
 - Spinner Dolphin *Stenella longirostris* LR/cd
 - Genus: *Lagenodelphis*
 - Fraser's Dolphin *Lagenodelphis hosei* DD
 - Genus: *Grampus*
 - Risso's Dolphin *Grampus griseus* DD
 - Genus: *Peponocephala*
 - Melon-headed Whale *Peponocephala electra* LR/lc
 - Superfamily Ziphiioidea
 - Family: Ziphiidae
 - Genus: *Mesoplodon*

- Deraniyagala's beaked whale *Mesoplodon hotaula* DD
- Suborder: Mysticeti
 - Family: Balaenopteridae
 - Subfamily: Balaenopterinae
 - Genus: *Balaenoptera*
 - Minke Whale *Balaenoptera acutorostrata* LR/nt
 - Bryde's Whale *Balaenoptera edeni* DD
 - Sei whale *Balaenoptera borealis* EN
 - Fin Whale *Balaenoptera physalus* EN
 - Blue Whale *Balaenoptera musculus* EN
 - Subfamily: Megapterinae
 - Genus: *Megaptera*
 - Humpback Whale *Megaptera novaeangliae* CR (Arabian Sea Population)
- Suborder: Odontoceti
 - - Family: Physeteridae
 - Genus: *Physeter*
 - Sperm Whale *Physeter macrocephalus* VU
 - Superfamily: Platanistoidea
 - Family: Kogiidae
 - Genus: *Kogia*
 - Pygmy Sperm Whale *Kogia breviceps* LR/lc
 - Family: Ziphiidae
 - Subfamily: Hyperoodontinae
 - Genus: *Indopacetus*
 - Longman's Beaked Whale *Indopacetus pacificus* DD
 - Family: Delphinidae (marine dolphins)
 - Genus: *Stenella*
 - Pantropical Spotted Dolphin *Stenella attenuata* LR/cd
 - Striped Dolphin *Stenella coeruleoalba* LR/cd
 - Spinner Dolphin *Stenella longirostris* LR/cd
 - Genus: *Lagenodelphis*
 - Fraser's Dolphin *Lagenodelphis hosei* DD
 - Genus: *Grampus*
 - Risso's Dolphin *Grampus griseus* DD
 - Genus: *Peponocephala*
 - Melon-headed Whale *Peponocephala electra* LR/lc
 - Superfamily Ziphiioidea
 - Family: Ziphiidae
 - Genus: *Mesoplodon*
 - Deraniyagala's beaked whale *Mesoplodon hotaula* DD

IUCN の分類カテゴリは以下のとおりである。

EX	Extinct	No reasonable doubt that the last individual has died.
EW	Extinct in the wild	Known only to survive in captivity or as a naturalized populations well outside its previous range.
CR	Critically Endangered	The species is in imminent risk of extinction in the wild.

EN	Endangered	The species is facing an extremely high risk of extinction in the wild.
VU	Vulnerable	The species is facing a high risk of extinction in the wild.
NT	Near Threatened	The species does not meet any of the criteria that would categorise it as risking extinction but it is likely to do so in the future.
LC	Least Concern	There are no current identifiable risks to the species.
DD	Data Deficient	There is inadequate information to make an assessment of the risks to this species.

以下は、初期の基準で NT～LC に相当

LR/cd	Lower Risk/conservation dependent	Species which were the focus of conservation programmes and may have moved into a higher risk category if that programme was discontinued.
LR/nt	Lower Risk/near threatened	Species which are close to being classified as Vulnerable but are not the subject of conservation programmes.
LR/lc	Lower Risk/least concern	Species for which there are no identifiable risks.

(2) 保護古齢樹木リスト

EPA の保護樹木リストより対象島のみ抜粋し、ディベヒ語より英訳した。

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
Haa Alif Atoll								
107	29HA01	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	12.15	9.04	West of HA. Atholhuge
108	29HA02	HA.Atoll	Dhidhdhoo	Nika gas	More than 50 years	6.1	6.02	West of pre-school
109	29HA03	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	4.05	6.02	In front of Kudage
110	29HA04	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	3.16	4.7	West of storage room of Island Office
111	29HA05	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	7.3	3.04	West of Windmaage
112	29HA06	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	7	3.05	North of Iramaage
Haa Dhaal Atoll								
2081	01HD01	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 65 years	4.5	7.62	Kudhi Akireege Aage
2082	01HD02	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 70 years	4.5	21.3	Champaa Ge
2083	01HD03	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 70 years	4.5	18.3	MalMal Ge
2084	01HD04	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 75 years	4.8	21.3	Midhili Maa Ge
2085	01HD05	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 85 years	4.95	21.3	Soasun Ge
2086	01HD06	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 60 years	4.3	20	Yellow Light Ge
2087	01HD07	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 70 years	4.3	15.2	On the grounds of Vahberuge

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
2088	01HD08	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 60 years	4.3	22.9	Falsaage
2089	01HD09	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 65 years	4.3	20	Total Ge
2090	01HD10	Hdh. Atoll	Kulhudhufushi	Banbukeyo Gas (Breadfruit Tree)	More than 80 years	4.85	15.2	Kistheege
2091	31HD01	Hdh. Atoll	Kulhudhufushi	RaaRuhi	More than 55 years	0.9	4.6	
Noonu Atoll								
1775	29N01	Noonu Atoll	Manadhoo	Nika Gas	More than 80 year	8.5	18.29	On the hospital grounds
1776	29N02	Noonu Atoll	Manadhoo	Nika Gas	More than 100 years	13.72	70	On the grounds where Wataniyya antenna stands
1777	29N03	Noonu Atoll	Manadhoo	Nika Gas	More than 100 years	13.1	56	South of Boduusgandu Magu
1778	29N04	Noonu Atoll	Manadhoo	Nika Gas	More than 100 years	45	56	East of Atholhuge, from the area allocated for Atoll Office near the harbour
1779	29N05	Noonu Atoll	Manadhoo	Nika Gas	More than 100 years	56	80	Near the bank, east of Aamagu
1780	29N06	Noonu Atoll	Manadhoo	Nika Gas	More than 100 years	4.6	60	Near Dhandukolhu, east of Aamagu
1781	29N69	Noonu Atoll	Manadhoo	Nika Gas	More than 100 years	13.72	70	On the grounds where Wataniyya antenna stands
Raa Atoll								
84	17R01	Raa Atoll	Ungoofaaruu	Kaani Gas	More than 55 years	0.9	16.15	In the park near the beach
85	29R01	Raa Atoll	Ungoofaaruu	Nika Gas	More than 65 years	0.7	30.48	On the play grounds

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
Baa Atoll								
88	17B01	Baa Atoll	Eydhafushi	Kaani Gas	More than 53 years	2.43	9.14	West of the grounds where the oil tank is located
89	17B02	Baa Atoll	Eydhafushi	Kaani Gas	More than 54 years	3.9	7.62	Near the north goal post of the football ground
90	17B03	Baa Atoll	Eydhafushi	Kaani Gas	More than 51 years	3.7	6.09	East of power house
91	17B04	Baa Atoll	Eydhafushi	Kaani Gas	More than 55 years	5.8	7.62	North of power house
Male'								
1	07Me01	Male	Villingili	Dhigga Gas	More than 50years	3.23	13.53	17the block of the recreation area
2	09Me01	Male	Villingili	Funa Gas	More than 50years	2.25	25.29	17the block of the recreation area
3	09Me02	Male	Villingili	Funa Gas	More than 50years	3.29	25.29	17the block of the recreation area
4	09Me03	Male	Villingili	Funa Gas	More than 50years	2.89	25.29	17the block of the recreation area
5	09Me04	Male	Villingili	Funa Gas	More than 50years	2.49	25.59	17the block of the recreation area
6	09Me05	Male	Villingili	Funa Gas	More than 50years	2.19	25.59	17the block of the recreation area
7	09Me06	Male	Villingili	Funa Gas	More than 50years	2.8	25.59	17the block of the recreation area
8	09Me07	Male	Villingili	Funa Gas	More than 50years	2	19.16	17the block of the recreation area
9	09Me08	Male	Villingili	Funa Gas	More than 50years	1.9	19.16	17the block of the recreation area
10	09Me09	Male	Villingili	Funa Gas	More than 50years	3	25.2	17the block of the recreation area
11	09Me10	Male	Villingili	Funa Gas	More than	2.85	23.23	Behind Bank of

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
					50years			Maldives, 31 st Block
12	09Mle11	Male	Villingili	Funa Gas	More than 50years	2.3	28.65	Flat area, 30 th Block
13	09Mle12	Male	Villingili	Funa Gas	More than 50years	2.57	28.65	Flat area, 30 th Block
14	09Mle15	Male	Villingili	Funa Gas	More than 50years	3.1	28.6	Flat area, 30 th Block
15	09Mle16	Male	Villingili	Funa Gas	More than 50years	2.15	28.6	Flat area, 30 th Block
16	09Mle17	Male	Villingili	Funa Gas	More than 50years	2.1	28.6	Flat area, 30 th Block
17	09Mle18	Male	Villingili	Funa Gas	More than 50years	1.84	28.6	Flat area, 30 th Block
18	09Mle19	Male	Villingili	Funa Gas	More than 50years	2.42	28.6	Flat area, 30 th Block
19	09Mle20	Male	Villingili	Funa Gas	More than 50years	2.3	28.6	Flat area, 30 th Block
20	09Mle21	Male	Villingili	Funa Gas	More than 50years	2.27	28.6	Flat area, 30 th Block
21	09Mle22	Male	Villingili	Funa Gas	More than 50years	2.05	28.6	Flat area, 30 th Block
22	09Mle23	Male	Villingili	Funa Gas	More than 50years	2.3	28.6	Flat area, 30 th Block
23	09Mle24	Male	Villingili	Funa Gas	More than 50years	2.57	28.6	Flat area, 30 th Block
24	09Mle25	Male	Villingili	Funa Gas	More than 50years	3.1	29.25	9 th Block
25	09Mle26	Male	Villingili	Funa Gas	More than 50years	3.15	28.65	9 th Block
26	09Mle27	Male	Villingili	Funa Gas	More than 50years	3.3	20.9	VIP area, 1 st block
27	09Mle28	Male	Villingili	Funa Gas	More than 50years	3.62	28.6	Flat area, 30 th Block

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
28	09Mle29	Male	Villingili	Funa Gas	More than 50years	3.65	28.6	Flat area, 30 th Block
29	17Mle01	Male	Villingili	Kaani Gas	More than 55 years	3.15	22.4	Veshi Magu
30	17Mle02	Male	Villingili	Kaani Gas	More than 50 years	4.27	22.4	Veshi Magu
31	19Mle01	Male	Villingili	Kinbi Gas	More than 60 years	3.68	26.4	VIP area, 1 st Block
32	29Mle01	Male	Villingili	Nika Gas	More 150 years	12.49	28.95	Infront of Ward Office, 17 th Block
33	29Mle02	Male	Villingili	Nika Gas	More than 50 years	4.89	15.2	Recreational area, 17 th block
34	29Mle03	Male	Villingili	Nika Gas	More than 50 years	13.3	23.35	Infront of MNDF Coast Guard, 50 th block
35	29Mle04	Male	Villingili	Nika Gas	More than 50 years	6.92	24.9	In front of MNDF Coast Guard, 50 th block
36	29Mle05	Male	Villingili	Nika Gas	More than 50 years	12.32	28.85	On the grounds of Water Supply, 50 th black
37	29Mle08	Male	Villingili	Nika Gas	More than 50 years			Number 31
38	29Mle09	Male	Villingili	Nika Gas	More than 50 years			Number 31
39	29Mle12	Male	Villigili	Nika Gas	More than 50 years			36 th Block of Environmental Office
Vaavu Atoll								
6	29V01	Vaavu	Felidhoo	Nika Gas	More than 320 years old	13.4	39.62	On the beach, south of the island
7	36V01	Vaavu	Felidhoo	Hirudhu Gas	More than 100 years	2.74	9.14	On the beach, north of the island

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
Faafu Atoll								
1	29F01	Faafu	Nilandhoo	Nika Gas	More than 150 years	10	45.72	Hukuru Miskiy Magu, east of Aasaary sarahaddhu
2	29F02	Faafu	Nilandhoo	Nika Gas	More than 130 years	11	30.48	South east corner of Aasaary Sarahaddhu
3	29F03	Faafu	Nilandhoo	Nika Gas	More than 70 years	5.5	24.38	Outside south east of Aasaary Sarahaddhu
4	29F04	Faafu	Nilandhoo	Nika Gas	More than 120 years	6.7	30.48	South east of Aasaary Sarahaddhu
5	29F05	Faafu	Nilandhoo	Nika Gas	More than 70 years	4.8	21.34	South east of Aasaary Sarahaddhu
6	29F06	Faafu	Nilandhoo	Nika Gas	More than 60 years	3.8	21.34	East side of Salam Mosque
7	29F07	Faafu	Nilandhoo	Nika Gas	More than 60 years	4	18.29	North side of Salam Mosque
13	25F01	Faafu	Feeali	Madhoshi Gas	52 years	1.93	21.34	Grounds of Feeali Cemetery
14	25F02	Faafu	Feeali	Madhoshi Gas	52 years	1.55	21.34	Grounds of Feeali Cemetery
Thaa Atoll								
38	29T09	Thaa	Guraidhoo	Nika Gas	More than 100 years	5.8	45.72	Kandaru Ward
Gaaf Alif								
4	01GA01	GA	Villingili	Banbukeyo Gas (Breadfruit Tree)	More than 60 years	1.83	21.34	On private property ground
5	11GA01	GA	Villingili	Gulchampa Gas	More than 65 years	0.6	6.09	On the grounds of the Court building
Gaaf Dhaal								
19	00GD01	Gdh	Thinadhoo	Anbu Gas (Mango Tree)	50 years	2.13	13.72	Dhanburudhoshuge
20	01GD01	Gdh	Thinadhoo	Banbukeyo Gas (Breadfruit tree)	More than 70 years	3.05	11.58	Maanel

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
21	01GD02	Gdh	Thinadhoo	Banbukeyo Gas (Breadfruit tree)	More than 75 years	3.4	12.19	Maanel
22	01GD03	Gdh	Thinadhoo	Banbukeyo Gas (Breadfruit tree)	More than 55 years	2.43	13.72	Bokarumaage
23	01GD04	Gdh	Thinadhoo	Banbukeyo Gas (Breadfruit tree)	More than 60 years	2.13	13.72	Westlight
24	01GD05	Gdh	Thinadhoo	Banbukeyo Gas (Breadfruit tree)	More than 50 years	2.43	12.19	Westlight
25	04GD01	Gdh	Thinadhoo	Boalhakinkiri Maa Gas	More than 65 years	1.5	7.62	Grounds of Hukuru Miskiy
Gnaviyani Atoll								
1	00GN01	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 60 years	3.5	21.34	Daisy Maa
2	00GN02	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 70 years	2.1	16.76	Fehi Villa Ge
3	00GN03	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 55 years	2	19.51	Kalhu Vashi Ge
4	00GN04	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 55 years	2	12.19	Husnoo Ge
5	00GN05	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 80 years	2.3	15.24	Maizaandhoshu Ge
6	00GN06	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 60 years	2.2	18.29	Emlee Ge
7	00GN07	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 56 years	2.1	21.34	Selat
8	00GN08	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 60 years	2.1	16.76	Fengadi Magu
9	00GN09	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 75 years	4.1	21.95	Anbugasdhoshuge
10	00GN10	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 59 years	2.2	17.07	Kariyyage
11	00GN11	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 64 years	1.9	14.02	Asurumaage


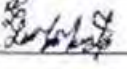








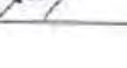
#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
12	00GN12	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 55 years	2	9.45	Galge
13	00GN13	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 58 years	2.1	12.19	Mainaage
14	00GN14	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 60 years	2.5	21.34	Kadhurumaage
15	00GN15	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 50 years	1.5	15.24	Maajehige
16	00GN16	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 70 years	2	22.86	Kalhufehige
17	00GN17	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 50 years	2.2	22.56	Keyofeeni Ge
18	00GN18	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 60 years	2.1	30.00	Roashan Villa
19	00GN19	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 100 years	2.5	36.00	Yaasameenuge
20	00GN20	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 59 years	2.5	27.00	Kulheemaguge
21	00GN21	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 84 years	2.3	22.00	Kudafaruge
22	00GN22	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 57 years	2.1	16.76	Bluereege
23	00GN23	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 50 years	2.3	15.24	Araarootge
24	00GN24	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 60 years	2.1	18.29	Neeravali
25	00GN25	Gn	Foammulah	Anbu Gas (Mango Tree)	More than 55 years	2.5	12.19	Ruhkosheege
26	00GN26	Gn	Foammulah	Funa Gas	More than 50 years	2.5	12.19	Near the mangroves of Bahaaruge
27	00GN27	Gn	Foammulah	Nika Gas	More than 70 years	10.5	6.00	Harbour near Thaara Magu
28	00GN28	Gn	Foammulah	Nika Gas	More than	11	9.00	Thaara Magu

#	Tree Code	Atoll	Island	Name of Tree	Age (estimated)	Circumference of the tree (meters)	Height of the tree (meters)	Location of the tree
					60 years			
29	00GN29	Gn	Foammulah	Nika Gas	More than 54 years	9	21.00	Behind Manhajul Hudha
30	00GN30	Gn	Foammulah	Nika Gas	More than 90 years	13	39.00	Ground of Haafiz Ahmed School
Seenu Atoll								
1	19S01	Seenu	Hithadhoo	Kinbi Gas	More than 55 years	6.4	30.48	Dhehera Fannu
2	19S02	Seenu	Hithadhoo	Kinbi Gas	More than 50 years	1.83	45.72	Dhehera Fannu
3	29S01	Seenu	Hithadhoo	Nika Gas	More than 60 years	5.5	22.86	East of Maamendhoo
4	36S01	Seenu	Hithadhoo	Hirudhu Gas	More than 55 years	6.37	36.6	Grounds of Media Centre

(3) ステークホルダー会議 議事録及び出席者リスト

1) デイッドウ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project.	<ul style="list-style-type: none"> Council is aware of the project but the general public is not aware of the project at all.
What is the opinion of the community regarding the project in your Island?	
Support of the local people for the proposed project	<ul style="list-style-type: none"> Yes, People will support the project
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> Maintenance issue might be there
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> Need to include sports channel Broadband internet service through the network Proper maintenance information needed to the council
In your opinion, are there any negative impacts or losses associated with the project?	<p>No negative impact.</p> <p>There might be lightning due to the tower from past experience</p> <p>Health issue due to radiation</p> <p>Some impact to the cable TV operator</p>
In your opinion, are there any positive impacts or benefits associated with the project?	General public will be benefitted
Is there an alternative location for the site selection?	There is not any alternative location that can be allocated. Huge land area is there for PSM.
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> Security is important to look after the site Proper maintenance and monitoring plan Local community will give their cooperation
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> There are construction companies who can do this job
Loss of residential/commercial structures, if any due to the project	<p>No</p> <p>If there is vibration during construction, then there may be some damage to the homes.</p>
Loss of community life like any market places or community activities to be affected?	Children's park, Harbor and Police station nearby. Therefore maybe impacted.
Is the site prone to disasters?	No
Is this consultation useful? Comments?	Yes

Name	Organization or Address	Designation	Contact no	Signature/E-mail
Hassan Kareem	Real T SPC	President H.A. Dhidho	9922665	
Munadi Ali	Real T SPC	Member H.A. Dhidho	9967945	
Ahmed Amjed	Bassala sports club	President	9991211	
Ahmed Tholha M	Bassala Sports club	Secretary	993923	
Dhifteen Fashedd	BX sports club	club regist	7631388	
Ibrahim Rashad	Dhaha Taanga Boys SC	Vice-president	9882917	
Ibrahim Rashad		Member	9747312	
Ibrahim Rashad	Dhaha Council	member	9993722	
Ibrahim Shinar	Dhaha Council	President	9991858	
Ibrahim Rashad	Dhaha Council	member	9991858	
Ibrahim Rashad	Dhaha Council	member	9505193	

2) クルドウフシ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> Council aware of the project. But island community is so far not aware
Support of the local people for the proposed project	<ul style="list-style-type: none"> We support and island community will support.
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> If it is private party, there will be always change of increasing tariff.
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> Cable TV's service is needed. Site is close to the shore. So maintenance will be high. Especially during south west monsoon season, sea spray is very high. Area is close to shore, therefore shore protection is important. Want to see localized channels specially for this island It should be able to provide local announcements and advertisements
In your opinion, are there any negative impacts or losses associated with the project?	Some loss to cabal TV operator. But general public will support
In your opinion, are there any positive impacts or benefits associated with the project?	Yes. But if it is only local channels people won't support that much
Is there an alternative location for the site selection?	No but north of the island can be considered.
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> HD quality cable TV's service should be available Internet service (WiFi) through this network. Island community and council will fully support this and if necessary others stakeholders will involve.
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> There are lots of construction companies which can handle this project. If needed council will cooperate with NGOs for their support.
Loss of residential/ commercial structures, if any due to the project	Residential plots are close by but don't think there will be any impact on them. There is a plan to have 50ft width road next to the site.
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	Erosion may occur. No other issue
Is this consultation useful? Comments?	yes

Name	Organization or Address	Designation
Ali Mohamed	K. Council / pm	President
Mohamed Amin	Hulhodhuffushi Council	Vice President
Aminath Majeedha	//	Council Member
Ibrahim Rasheed	//	Council Member
Ali Ibrahim	MWSC	security
Yasin Mohamed	Varudhee	Taxi driver
Hussain Maceen	Foo 242	shop owner
Khadheega Mohamed Metcherayya		-
Shiqwar Ali	Mosque	Shop keeper
Faheem Zakariya	PSM	Technician
Adnan Nasser	Thaadhayee	Finance
Mohammed Ali	LUA	Driver
Abdul Sadek	Koof ASU	-
M.A. Gafar	Koof ASU	-
Abdul Rasheed	H.Dh PRE / Kadhaf School	Teacher
Abdulla Maw	Hirudhu	-

Close to the public due to confidentiality

3) フナドゥ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<ul style="list-style-type: none"> • Very good objectives • Its not good to construct antenna in living area • Increasing no of antenna will consume lands and other area- better to think to use common antenna • Council need to know who look after the land even during the service-council welcome to take if paid <p>No info It's a good project Heard on TV news but limited info Yes, through council-from some other party related to same work and through PSM/TVM</p>
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • Yes, support will be there • Stakeholder support...also council • Very good project if fulfilled
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • Any work without a pay will be an issue • Need prior info about when to send signals from antenna to houses • Lightning to antenna is sometimes a fear for the locals • No issues from locals • Radiation run on the long run • Good if better service • If foreign channels-should be cautious on unrelated contents • Some youths might stay there and do bad things • Should construct tower away from local polulation • Lightning may cause power failure in near by houses-it should be avoided • Safety concern-hope work will be carried out after good study
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • Channels should be available • It is important to communicate through atoll council to island council • If council can get facility to announce/channels to the locals • Nearest pond can be reclaimed • Location should be separated and fenced • The area is in waste/garbage area-local houses are there • CCTV should be there • Even in future the land area should not be close to population • Culture and religious channels should be incorporated • Once implemented and depend on the service, price should not be increased.
<p>In your opinion, are there any negative impacts or losses</p>	<ul style="list-style-type: none"> • Increasing signals from similar antennas may cause interference to other services

associated with the project?	
In your opinion, are there any positive impacts or benefits associated with the project?	Quality signal Dissemination of warning messages Free channels is a good thing Job opportunities Better rich information
Is there an alternative location for the site selection?	Some suggested to use east side may be better Near harbor area is better because to go and get service will be easier
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	Sustainability with upgrades Dhiraagu antenna caused hospital equipment damage in one thundering event Dewatering can cause contamination
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> • Council can provide accommodation and other service on paid basis • Local can fully engage in the project
Loss of residential/commercial structures, if any due to the project	If better service is available continuously we believe there is no loss of land
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	Waves common (Udha) Should be reclaimed to make the area high Erosion Tsunami 2004
Is this consultation useful? Comments?	Useful Very important Better to get view from public yes

Name	Organization	Designation
AHMED IBRAHIM FULTHER	FUNADHOO Council	PRESIDENT
AHMED NAZEER	"	Member
JAYAS KRAAWIDH	"	V. PRESIDENT
ABDULLA RAJEEED	"	Member
IBRAHIM RASHED IIRRES	SH. ATOLL COUNCIL	V. PRESIDENT
Mohamed Husham	Sh. Funadhoo atoll Hospital	In charge
Shihama Mohamed	Sh. Family and children service center UNADHOO	A social service worker

Date: 30/06/2

Name	Address
Mohamed Adam	keetharose
Mohamed Hussain	Rani
Abdul Shakoor	Itaidhee
Zareena	Radiunge
Abdulrahman Ahmed	Finikiyaage
Rifa	Moonlight
Suzana	ALFA
Zaina	naadhee
Ibrahim Shiham	Trunathreege

Close to the public due to confidentiality

4) マナドゥ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<ul style="list-style-type: none"> • Beneficial project-well informed • Good project with minor concerns • No information • Little awareness
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • Positively support, will support, beneficial
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • High rise mast in a residential area • Mast in a residential area • Lightning risk • radiation • A mast catering for all the users is needed
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • Boundary wall should be there • Lightning protection should be there • Security should be there • Maintenance should be there • Safety standard should be followed • All the antenna should be in one mast • Tower should be painted
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<p>No impact Radiation Damage due to disaster Falling objects from the tower</p>
<p>In your opinion, are there any positive impacts or benefits associated with the project?</p>	<p>Job opportunities Income generating source Social services Competition in the market Disaster warning Income from the land Availability of public TV Cheaper price Good signal strength</p>
<p>Is there an alternative location for the site selection?</p>	<p>Eastern side near other mast Near Dhiraagu mast, near football field West side of proposed site</p>
<p>Any other issues you may feel like to share: (Whether they</p>	<ul style="list-style-type: none"> • Information related to the project will be very useful • Future planning

welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> • Sharing of same mast for all service providers • Local parties are willing to carryout maintenance work • High rise mast in residential area
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> • Construction parties will involve
Loss of residential/commercial structures, if any due to the project	Unused green filed, no
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	no
Is this consultation useful? Comments?	Some information useful, good, informative, useful

Name	Organization	Designation
MOZEEZ		Chairman
ALI SHAHEED		
ALI NAJIB	N. ATOLL COUNCIL	MEMBER
Mohamed Imas	N. ATOLL COUNCIL	member
Abimeed Fahem	N. ATOLL school	Principal
Jib Naseer	Femba cop-1st	Asst-manager

Name	Address
Ismail	Roashanage
Adam fahem	Twelve Paa
Adam Abdul Karim	Daisy range
Fayaz	Landhooage
Rameez	Hulhanguge
Umar Ismail	Baharage
Adam Naseer	Arbuz-sollu
Abdulla Hassa	Awarooz
Jaufer Abubakar	Maltheerage
Mithun (Dove)	Mkuzungu
Mohamed	Fumadhu
Zarna Abdul Hakeem	Hopper sink
Aminath Haroon	Hulhanguge
Aminath Ahmad	Manjoringe
Aminath Mideemah	Kuritheerage
Jameela Moosa	Dheraha
Habeiba Ibrahim	fahamityage
Maryam Wabedha	Hiri
Shahidha Abdul Qadir	Awaraz
Ainla Abdul Hakeem	fasmaceer

Close to the public due to confidentiality

5) ウンゴファル

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> • It's a good project • No idea (not heard)
Support of the local people for the proposed project	<ul style="list-style-type: none"> • Will support and others also will fully support
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> • No concern • Current service provider may lose business
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> • Internet through this network • Localized advertisement • Local people should be involved • Should be well maintained • No service disruption •
In your opinion, are there any negative impacts or losses associated with the project?	Local service provider will be effected
In your opinion, are there any positive impacts or benefits associated with the project?	<ul style="list-style-type: none"> • Quality service • Job opportunity • More channels • Warning information dissemination
Is there an alternative location for the site selection?	Best location
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	Security and construction work should be given to local people
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> • Yes, local labor will involve
Loss of residential/commercial structures, if any due to the project	no
Loss of community life like any	no

market places or community activities to be affected?	
Is the site prone to disasters?	no
Is this consultation useful? Comments?	Yes, lot of information gained It is advisable to involve local community in this project

Name	Organization or Address	Designation
Mohamed Nizar Ali	New Face	
Mohamed Aboobakuru	Salmaage	
Hussain Zakariyya	Dhoadhi	
Hussain Ali	Maayaa	
Yousuf Shareef	Asareege	
Abdulla Hameed	Roazy villaage	
Ali Naeem	Minwan Asseyri	
Yaugoob Yousuf	Fangi	
Adnan Adam	Noohiri	
Mohamed Fahmy	Malaz	
Ibrahim Manik	Sosun villa	
Ibrahim Rasheed	Asurumaage	
Mumthaz Mohamed	Thila	
Ali Moosa	Chanbeyleege	
Moosa Haleem	Morning vaadhee	
Abdul Ghanee Mohamed	Shabnamge	
Ahmed Afsal		
Ahmed Niyaz		

Close to the public due to confidentiality

6) エイダフシ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> • Good project. We and people will support the project • Not aware of the project
Support of the local people for the proposed project	<ul style="list-style-type: none"> • Will support the project • Channels are available in Male but not available in these islands. • There will be people who will need free channels.
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> • No concern
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> • Internet service through this network. • A way to transmit local information to local public (this island people) • There should be no radiation effect
In your opinion, are there any negative impacts or losses associated with the project?	No negative impact. Maybe Cable TV operator might be impacted
In your opinion, are there any positive impacts or benefits associated with the project?	Quality of service expected to be good Free service people will accept
Is there an alternative location for the site selection?	Alternative area could be near stage area
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> • Sometimes feel that there might be threats during storms. • Due to competition there may be some threat, therefore need to have security.
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> • Yes • There are construction companies • Hard to get labour
Loss of residential/commercial structures, if any due to the project	No
Loss of community life like any market places or community activities to be affected?	No
Is the site prone to disasters?	No
Is this consultation useful? Comments?	Yes

Name	Organization or Address	Designation
Hussain Siraj	Utaraungu	Taxi driver
Ibrahim Ahmed	Amanz	Fisherman
Abdul Fatah Mohamed	Gan'dhakodhiwage Hospital	Health officer
Seroza At mjid	Magoo-Lange	Nurse
Aishath Riffa	Narugis villa	Receptionist
Fazloin Mohamed	B. Atoll Education centre	Admin. officer
Hana Hamid	B. Atoll Education centre	student
Haleema Ahmed	B. Atoll Hospital	Health officer
Ranya Rashadh	B. Atoll Education centre	student
Suha Ahmed	B. Atoll Education centre	student
Fathimath Riffa	B. Atoll Education centre	student
Mohamed Akmal Ibrahim	B. Atoll Education centre	student
Mohamed Waleed	B. Imanu'Allah wafa	shopkeeper
Mohamed Ahmed	Council	member
Mohamed 'Abd	Com. Pecton-Joban	Presi
Mohamed 'Abd	Council	Member
Muhammad Asim	Council (Ejdhufashi)	A. Director
Muhammad 'Abd	Ejdhufashi council	Member

Close to the public due to confidentiality

7) ナイファル

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> • Heard about the project. Sustainable project • No information • Little information
Support of the local people for the proposed project	<ul style="list-style-type: none"> • Will support. Not support, will not support, support
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> • Radiation, High rise structure, security of infrastructure, no concerns, residential site
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> • Security, Safety, fencing, prompt fault attending, sharing of same infrastructure, cheaper price, religious and educational programs should be included • Painting should be done
In your opinion, are there any negative impacts or losses associated with the project?	Health risk, mosquito breeding, maintenance, wild life attraction, loss of land
In your opinion, are there any positive impacts or benefits associated with the project?	More structures will not benefit Awareness, more educational channels, cheaper rates for cable TV, No benefit
Is there an alternative location for the site selection?	Felivaru, Olhuvelifushi, offshore lagoon, no land space, near waste disposal yard, lagoon
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> • Business opportunities might be lost for the local people • Sharing of infrastructure for different companies • Cable TV is a must •
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> • Will involve
Loss of residential/commercial structures, if any due to the project	Proposed site for the project is extension of children park
Loss of community life like any market places or community activities to be affected?	Youth camp, bashi court (woman playground), Sea sport site, close by commercial sites
Is the site prone to disasters?	Erosion-beach protection is not there, flooding
Is this consultation useful? Comments?	Informative, useful

Date:		
Name	Organization	Designation
MUHAMMAD HASSAN	MADHARA SATTUL IFTIKHAR	DP
MUHAMMAD HASSAN	NAIFARI COUNCIL	ASST DIRECTOR
MUHAMMAD SUBID	NAIFARI COUNCIL	BOUNGH
Nasirullah M. M. M.	Buddies-Net	MT.D
Alimul Yaqin	Naifari Council	Director
Rishi Nasser	Naifari police	Station incharge
Husain Zaman	Buddies-Net	Manager
Ahmed Abdulla	Jhoni boase	attrex
Muhammad Hassan	Sattlink Pvt Ltd	Technician
ASADU KHAN	ADIL HOSPITAL	S.P OFFICER
Hamid Abdulla	M. Formu Council / Bahara	S. MANAGER / Service Officer
Imam M. M. M.	Council	Member
Muhammad Karim	Council	Council member
ARAFATH MUHAMMAD	FERRARA NAIFARI	STATICAL MANAGER
ASADU KHAN	NAIFARI COUNCIL	ASST DIRECTOR

Close to the public due to confidentiality

Date:	
Name	Address
Yousuf Zakir	Amman Vehi
Abdul Qani	Udha
Ahmed Sharraf	Rasari Villa
Ali Nigaz	Vaimathhege
Husain Zakir	Viluveti
Hamid Abdulla	Hakaveli
Abdul Razaq	Gulishange
Muhammad Jaleel	Fennaage
Muhammad Ali	Kopege
Muhammad Sidiq	Maveyo
Muhammad Ibrahim	Amman

8) マレ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> • Some stakeholders are not aware of the project. • Dhiraagu requested for coordinates of proposed locations. We have no issues with the project (if there is a problem we can provide a solution). • Some community members are aware of the project and said they will support the project.
Support of the local people for the proposed project	<ul style="list-style-type: none"> • Good project. Challenging project. But can be done. Yes, community people will support. One of the community member said he will not support the project (but no specific issue). • Good project and we will support.
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> • No concern • Dhiraagu plan to build a new tower • People should not be allowed to access the site • The tower might fall onto the houses are nearby • Might be impacted due to high sea waves • The project should be carried out away from residential area
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> • The area should be fenced and cordoned while construction • We maintain the island as a green island. So we request planting trees around the area • Educational channels should be there • Islamic channels • Safety should be taken seriously • Price should be lower and should be able to pay in local currently (now paying in dollars)
In your opinion, are there any negative impacts or losses associated with the project?	Might fall
In your opinion, are there any positive impacts or benefits associated with the project?	<p>For awareness, the network can be used.</p> <ul style="list-style-type: none"> • Service quality will improve • Disaster information will reach people
Is there an alternative location for the site selection?	Some said this is the best location while others said all the towers should be around the same area. The proposed location is very close to STELCO transformer.
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> • Why extra towers will be constructed? While there are Dhiraagu and Ooredhoo towers • Now we face problem with the service and we expect this will improve the service • No there is monopoly • We would like to know which vehicles will be used, no of people-Can allocate land from Gulhifalhu for labour

	<ul style="list-style-type: none"> • Condition of the site might improve with the project (e.g. flooding condition will improve) • Service quality will improve • Disaster information
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> • Some construction companies might be involved. • To some extent community will be involved • It will be good if the island people carry out the construction work.
Loss of residential/commercial structures, if any due to the project	no
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	Flooding, high waves even up to the road, tsunami, strong winds.
Is this consultation useful? Comments?	Yes. Good that the team came to meet STELCO. Good info

Name	Organisation	Designation
Abdulla Shamiq	WILLI	EX. Consultant
Zulfhan	STHANNAN	& Engineer
Muhammad		Manager
Abdul	WILLI	S. Manager
Yusuf	WILLI	S. Engineer
Nazim Ali	Makul/Ala Steel	Quality
Abdullah		Inspector
ABRAHIM IKHARIZ	STELCO	ADMIN SUPERVISOR
ALI RISHWAN	STELCO	SUPERVISOR
ABDULLA SHAFIQ	STELCO	"
MUHAMMAD ABDULLA	STELCO	"
Adam Ludwig	PSM	MANAGER

Close to the public due to confidentiality

Name	Address
Ali Mohamed	NAZAN
Muhammad Nizam	V. VERONICA
Muhammad Nizam	V. BAHAMON
Hassan Ali	V. HATHAVI
Shahid	CITRA KING
Shahid Abdul Samad	HAMBURAN
Hassan Yusuf	V. ULHAFAN
Arif Muhammad	V. MANAM
Ibrahim Muhammad	V. NISAMUNHAGA
Adam Nizam	V. SATELLITE

Close to the public due to confidentiality

9) マーフシ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the	<ul style="list-style-type: none"> • Survey carried out...no detailed information • Miscommunication • Limited information • Beneficial project

community regarding the project in your Island?	
Support of the local people for the proposed project	<ul style="list-style-type: none"> • Will support • Will support • Their recommended conditions • Land reclamation is a requirement
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> • Falling debris , population scattered • Past experience was not favorable • No concern • Loss of land space •
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> • Security-prison is very close by • Surrounded by residential units • Boundary wall • Public safety • Should meets standard (by relevant regulator) • Frightened due to the sound by strong wind due to the size of the mast • Safety • Space limitation • Boundary wall • Lighting •
In your opinion, are there any negative impacts or losses associated with the project?	<ul style="list-style-type: none"> • Radiation • climbing by general public • Potential hazard to local people • Land limitation • Island landscaping view
In your opinion, are there any positive impacts or benefits associated with the project?	<ul style="list-style-type: none"> • No significant positive impact • Job opportunities • Cheaper TV • Educational channels • Stronger TV signal
Is there an alternative location for the site selection?	Reclamation site, MNDF site, Lagoon, Sand bank near Islaahiyya Allocated land plots for gov.
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> • Land is scares...currently island is full (no land) • Sharing of infrastructure would save limited available land plots for other more important things • Everything is costly to the people
Will there be likely involvement of local people in the	<ul style="list-style-type: none"> • Will involve...island party is preferred

implementation of the project?	
Loss of residential/commercial structures, if any due to the project	Driving test conducting location
Loss of community life like any market places or community activities to be affected?	One palm tree, a lamp post
Is the site prone to disasters?	Udha, Twister prone location, Waste disposal plot nearby
Is this consultation useful? Comments?	Helpful, useful

Name	Organization	Designation
Ahmed Ab. Saffar	Maafushi Power House	Office Asst.
Mariyam Ajla	Maafushi School	Admin. officer
Ahmed Zinath	Maafushi Prison (MCS)	F.C.P.D
Ali waasheed	Maafushi Council	A. Director
Ali Shammood	Councilor	Councilor
MAJIDH IBRAHIM	MAAFUSHI COUNCIL	V. PRESIDENT
AISHATH IUSHA	MAAFUSHI COUNCIL	COUNCILOR

Close to the public due to confidentiality

Name	Address
Ali Mansoor	Felivina munge
Ali Shareef	Nanovilla
Ahmed Mifzal	Miladhooge
Hanifa	Rabamunge
Bathriyya Hassan	Neseemunge
Ibrahim Mustafa	finifemunge
Rishwan Ahmad	Happy future
Mariyam Muzna	Selvia
Abdulla Saeed	Selvia
Mehand Saeed	Heselma
Asma. Abdul. Palen	Saaka
Jamshodha	Hamimunge

Close to the public due to confidentiality

10) フェリドゥ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<p>Good project. Heard about the project Not heard about the project Good project</p> <p>PSM had provided limited information We have sent a letter to PSM</p>
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • Council: People may not support the project since there are existing issues with the land allocated PSM-Not maintained at all, no boundary wall, mosquitoes breeding at the site. No lights- We have sent a letter to PSM highlighting these issues • Support the project
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • Not maintained at all, no boundary wall, mosquitoes breeding at the site. No lights- The proposed location within the boundary is so close to houses-Council has sent a letter to PSM highlighting these issues • Support the project • From the existing towers objects falling-So from the project also same might happen • Radiation • Disruption of the service • Currently also the area is not maintained • Mosquitoes are breeding at the area
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • Fence should be there • Lighting should be there • Area should be well looked after (cleaning and maintenance) • Price should be lower than now • Service should be quality • Free channels should be there • Educational, religious channels should be there • Beach protection measure should be there • Land rent should be paid • First priority should be given to safety • During dewatering, water should not be released to the sea • The tower should be built away from houses (middle of the land allocated) • Island vegetation should not be impacted
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<ul style="list-style-type: none"> • Might fall objects and damage properties and might harm people • Radiation impact

	<ul style="list-style-type: none"> • Might impact ground water quality-During previous tower construction water is released to sea
In your opinion, are there any positive impacts or benefits associated with the project?	<ul style="list-style-type: none"> • Might provide job opportunities • Quality service • Delivery of information during emergency • Price might be low • New channels might be available • Food and accommodation for workers
Is there an alternative location for the site selection?	<ul style="list-style-type: none"> • Close to houses-might impact • Best location-No other good location •
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> • Close to beach-beach is eroding • Would like to see the project starting as early as possible • Full support if the service is provided sustainable • If PSM carries out any work in the atoll, first priority should be given to this island since the tower is in the island-for example if shooting is done for an advertisement, it should be done in this island • Now the cable TV service is provided to other islands within the atoll by this island-Lot of pressure to council since PSM focal point is not attending any issues •
Will there be likely involvement of local people in the implementation of the project?	Yes. Work should be given to island people Loading and unloading of goods can be done by the locals
Loss of residential/commercial structures, if any due to the project	No
Loss of community life like any market places or community activities to be affected?	No
Is the site prone to disasters?	Flooding area is eroding – needs to be protected (about 20 feet between beach and the land)
Is this consultation useful? Comments?	<ul style="list-style-type: none"> • Good, good

Name	Organization	Designation
Abdul Majid Abdul Ghouse	V Hall Council	D. Director
Saeed Ibrahim	V Felidase police	P Sergeant
Jasim Raza	V Felidase Council	Admin. officer
Ali Nishwan	V Felidase Police	Police Assistant
Muhammad Hakeem	F - SD	19 -
Ali Faris	Univ Hall Hospital	Community Health Officer
Hassan Ali	V Felidase Council	Council President
Amir ul Rehman	V FESC	Admin. officer
Usaid Saeed	V Felidase Council	A. Director

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Name	Address
Muhammad Ismail	Sasun Villa
Ibrahim Ismail	Sasun Villa
Ibrahim Nizam	Garnation villa
Ali Nazam	Hadid vantage
Muhammad Ali	DilKash Villa
Muhammad Ali Ghouse	Green's
Mariyam Ibrahim	Quercus
Abdula Ali	Pluk Flower
Abdul Rafoor	Kenewe villa
Hafsa Rasim	Kenewe villa
Naluffa	Sasun Villa
Shikana	Star light
Vishama	Wicket star

Close to the public due to confidentiality

11) ダンゲティ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<p>Heard about the project. Good project. Aware of the project. Not heard. Good project.</p>
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • Full support • We support and community also will support
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • Why existing towers are not used? Current location is tourism development area. • Fee for the service might be higher than now • There might be inappropriate channels for children •
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • Fence should be there • Sign board • All the basic channels should be free • Sports channels should be there • There should a rent for the land area • The area should be looked after (through a party or a staff) • Price should be same • Educational, Religious, health. • Free channels should be there
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<ul style="list-style-type: none"> • Radiation impact • Will limit availability of land for other purpose • If outsiders are given employment
<p>In your opinion, are there any positive impacts or benefits associated with the project?</p>	<ul style="list-style-type: none"> • Might reduce price (fee) • May provide job opportunities • Emergency information delivery • Service will improve (now very poor service) •
<p>Is there an alternative location for the site selection?</p>	<p>Council: The current survived land area will not be given since it is tourism development area. New land area has been identified and allocated by the council. This land area is allocated through consultation with the public. A letter had been sent to Home Ministry to inform this decision. Also informed to Housing Ministry.</p> <p>Current allocated land area is best location. One suggested reclaimed area. With the tower, aesthetic value</p>

	will improve
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> If the project goes well, then it is a good development project.
Will there be likely involvement of local people in the implementation of the project?	There are parties who can work on these kind of projects. There is likely involvement.
Loss of residential/commercial structures, if any due to the project	No If it falls, it will be a big problem.
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	no
Is this consultation useful? Comments?	<ul style="list-style-type: none"> Very good-got information

Name	Organization	Designation
ABDUL HANMAN	Chungathu Council	Chairman
Nasir Ahmad		Member
Hussain Ahmad		Member
Isam Ahmad	Chungathu Council	Member
Abdul Wahid		Member
Aminath Rahman		Member
Muhammad Rashed		Member
Fathimath Ahmad	Chungathu Council	Member
Imam Ahmad	Chungathu Council	Member
Muhammad Rashed		Member
Abdul Wahid	SANJAYATHUL KAWAR PATTI	Member
Abdul Wahid	Chungathu Council	Member
Abdul Wahid	D.H.C.	Member
Abdul Wahid	POLICE	Member

Name	Address
Muhammad	Chungathu
Ibrahim	Five Village
Umaru Hassan	Springville
Aminath Rahman	Benarage
Muhammad Ahmad	Willya
Fathimath Ahmad	Chungathu
Abdul Wahid	Chungathu
Umaru Hassan	Arige
Aminath Rahman	Springville
Aminath Rahman	Springville

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Close to the public due to confidentiality

12) フィアリ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> There projects will be a good project to cure citizen. Because through this project island people can get many information.
Support of the local people for the proposed project	<ul style="list-style-type: none"> There will be high support from the local people
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> no
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> no
In your opinion, are there any negative impacts or losses associated with the project?	<ul style="list-style-type: none"> no
In your opinion, are there any positive impacts or benefits associated with the project?	Yes, islands can get job during construction period
Is there an alternative location for the site selection?	Yes-but no specific location was provided
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> people from the island always will welcome to these kind of projects.
Will there be likely involvement of local people in the implementation of the project?	Yes, construction workers from the island will be helpful to the project.
Loss of residential/commercial structures, if any due to the project	No
Loss of community life like any market places or community activities to be affected?	Yes, Those who are doing same kind of business will be affected.
Anything would you like to add?	<ul style="list-style-type: none">
Is this consultation useful? Comments?	<ul style="list-style-type: none"> yes

Name	Organization or Address	Designation
Abdulla Zaman	Heavy Moon	ACMO
Nadhuwa Hussain	Chaman	Translator
Aminath Soetha	Heypleen	A-Admin
Ashath Zahara	Chaman	Pracker
Ahmed Shareef	Bageecharge	Teacher
Mohamed Sauroz	Santhandiy villa	Technician
Ahmed Rafiq	Beach Herer	supervisor
Mohamed adam	elishan	fishermen
Ali shafeeq	Baharage	S-admin
Ali Aswain	Aariyanna	officer
Saeidha Hasan	Rupavilla	Admin
Mohamed Rameez	Rantolca villa	supervisor
Ahmed Shaibu	Bannal-sange	fisherman
Najla Mohamed	Norriany villa	hus wife
Mariyam Hassan	Rupavilla	Comm v presh
Gassan Mohamed	Happy Gardens	Project officer

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13) ニランドゥ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your island?	The community is already aware to this type of projects. Because in the past these types of some projects held in this island. So in one word can say the whole community is eagerly waiting for the projects which will be held in the island.
Support of the local people for the proposed project	The locals are awaiting for the projects. They will help the project as they can.
Any critical issues or concerns, problems by the local people regarding the project?	No
Are there any criteria you would like to see considered during the project design, construction and operation stage?	The time duration and work schedule of the project. And the finishing date.
In your opinion, are there any negative impacts or losses associated with the project?	Somehow there may be a negative opinion. Because of the political issues spreading all over the country. But as compare to other communities the issues are a very low in this island.
In your opinion, are there any positive impacts or benefits associated with the project?	Because of this project there are some direct and indirect benefits. Directly the connection of PSM and our communities will arise. Indirectly local businesses will benefit.
Is there an alternative location for the site selection?	No
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	When the project is going on, the authority persons from the community will give advice and helping the projects direct and indirectly.
Will there be likely involvement of local people in the implementation of the project?	Yes.
Loss of residential/commercial structures, if any due to the project	No
Loss of community life like any market places or community activities to be affected?	No
Is the site prone to disasters?	Rarely.
Is this consultation useful? Comments?	Yes

Name	Organization or Address	Designation
Ali Rasheed	F. Nilandhoocouncil	councillor
Ismael Abdulla	F. Nilandhoocouncil	Director
Ali Ahmed	Karunkaage	local
Manoora	Chaudharaage	women local
Ahmed Sharaf	Kingraa	planning offi
umma kulsun	Uninaage	local
Amma Ismael	Funamaage	local
Shadhiga	Reashan	local
Zubeydah Ali	Dheylynaage	parent
Samara Sobha	Palmside	parent
Fareesha	Fareesha council	parent
Natullahige	Dainamaage	parent
Ashraf hameed	Alisla	neighbour
Ali Hussain	urenas	local
Abdul Majeed	Diamond villa	association
Abdullah Majeed Mawjood	Balbilage Shaharaha	youth

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14) ガン

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> No aware of the project Need more info
Support of the local people for the proposed project	<ul style="list-style-type: none"> Yes, full support. Community also will support
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> No critical issues
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> Should get local channels Cable operators might oppose the project There should be a way to provide information by the council to the community in case of emergency There should be fence around the area Prior notice should be given to FENAKA
In your opinion, are there any negative impacts or losses associated with the project?	<p>No negative impact Might be expensive</p>
In your opinion, are there any positive impacts or benefits associated with the project?	<p>Fees might be lower for the channels Digital service to all Emergency information/announcement</p>
Is there an alternative location for the site selection?	Some indicated that the previous location is best, while others indicated the location is good
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> Sometimes the contractors might interfere with the public Do not work without knowing the location NO firms Better to contact council before dewatering Boundary should be separate-responsible person should be known. Local involvement
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> yes
Loss of residential/commercial structures, if any due to the project	no
Loss of community life like any	no

market places or community activities to be affected?	
Is the site prone to disasters?	no
Is this consultation useful? Comments?	good

Name	Organization	Designation
Mohamed Syed	Gen Council	President
Abdulla waliz	Gen Council	v President
Aslam Mohamed	S	member
Farooq Hussein	S	S
Ibrahim Niyaz	Dhiraaga	A Engineer
Abdulla Suleiman	FENKSA co Ltd	R Manager
Aminath Saib	public	-
Mariyam Umar	1.	-
Aishath Shaima	1.	
Khudheera Humay	1.	

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15) グライドゥ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<p>No previous information But few are aware of the tower Community will support</p> <p>Known Good project Good project is better signal and cheap price</p>
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • Full support • Usually it gets delayed...good if the project not delayed • Good-public service project • If it's through government, it is ok
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • Some stakeholders raised concern regarding the location • Current Cable service providers may not be able to give service • No issue: Happy to see development • We may loose our fishing area
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<p>If skilled workers are available at island, preference should be given to them. It should be fenced Educational channels should be there No specific criteria Signal should be as planned-no delays acceptable More religious channels should be incorporated Drama is not good</p>
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<ul style="list-style-type: none"> • No • Might fall and create a disaster • There might be lightning (happened about 40 years ago on to 14 coconut trees)
<p>In your opinion, are there any positive impacts or benefits associated with the project?</p>	<ul style="list-style-type: none"> • Emergency announcement feature is a positive impact • Could provide job opportunity • If educational or religious channel is provided, will help to build good generation • May create an economic activity • Better signal is all added advantage
<p>Is there an alternative location for the site selection?</p>	<ul style="list-style-type: none"> • Some suggested new reclaimed area • Prefer existing location • Best land (no better location)
<p>Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local</p>	<ul style="list-style-type: none"> • Yes, local can work • Small harbor should be used for safety and easy transport • Should be fenced

community during the implementation, security measures, etc)	
Will there be likely involvement of local people in the implementation of the project?	No, yes, yes
Loss of residential/commercial structures, if any due to the project	Less likely
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	Windy area/ not prone to any specific disaster
Is this consultation useful? Comments?	<ul style="list-style-type: none"> Yes, very good

Name	Organization	Designation
Hussain Ahmad	Guraiddoo Council	President
Mohamed Sarah	Guraiddoo Council	Vice President
Kyas Abdulla	Guraiddoo Council	Director
Muhammad Faruk	HEALTH CENTRE	S ADMINISTRATOR
Ahmed Rashid	Guraiddoo Environment movement (GEM)	President
MUHAMMAD AFEEF	STATION MANAGER FENAKA	
MUHAMMAD RAJIB	GURAIDDOO COUNCIL	Council Member
Hussain John	(Guraiddoo Council)	Council Member
Ahmed Ibrahim	The atoll council	v. president

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Name	Address
Zuleyha	Thuddege.
Muhammad Hafiz Ilyas	Kaafin
HILWEE	
RASHEED	
AHMED	
HUSSAIN MAHIB	maahab -
Zuleyha Abdulla	Athalamavilla
Zuleyha Komar	Athalamavilla
Santa Mahib	Udhamees
MOOSA MAHIB	Faandhagooje
Aminath Ibrahim	Faandhagooje

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16) ビリンギリ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your island?</p>	<ul style="list-style-type: none"> • Some people indicated that previously they have not heard about the project (Not shared with public by the council). • But others heard from the local TV about the project and aware of the project site in the island. • Very much looking forward to the project
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • All the people who attended and the people we met said they support the project and local other local people also will support the project. • They think the project is a good project. And suggested that they are looking forward to the project since current signal is not good (we cannot live without TV).
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • One council member indicated that the proposed site has not been allocated. Council has not received any request officially to allocate the site for the project. • No concerns or issues were raised by the locals and locals said the project site is away from the local residents and is in the green zone (so no problem)
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • PSM office also should be located at the proposed site • Current PSM land should be handed over to the council for other use. Existing PSM building is too old and new office buildings should be constructed • Price of the services should remain same • Advertising opportunities should be given to local and regional businesses (even for a charge island). • Construction should be done by closing the area to avoid accidents
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<ul style="list-style-type: none"> • Might impact current service providers business. Because of the project, current service provider business should not be impacted. • ..
<p>In your opinion, are there any positive impacts or benefits associated with the project?</p>	<ul style="list-style-type: none"> • Will not affect flight (new location). Existing PSM tower is in flight approaching area. • Quality service will be available due to the new technology (we are confident that the project will provide better service)
<p>Is there an alternative location for the site selection?</p>	<ul style="list-style-type: none"> • No other location suggested and noted that the proposed site is the best location (away from residential area) • No other site is available for such a tall tower • Suggested that the soil is a good in the proposed area
<p>Any other issues you may feel like to share: (Whether they</p>	<ul style="list-style-type: none"> • Happy that the work is in progress • 100% COOPERATION BY THE PUBLIC

welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> Local companies should be involved in the construction work
Loss of residential/commercial structures, if any due to the project	No
Loss of community life like any market places or community activities to be affected?	No
Anything would you like to add?	<ul style="list-style-type: none"> Currently the service is very weak--How the service will be in the future? We indicated that the service will be better.
Is this consultation useful? Comments?	<ul style="list-style-type: none"> Very happy to have the meeting We got extra information

Name	Organization or Address	Designation
Ahmed Abdulla	PSM / ga. Medicenter	
Dr. Hafeez Khan	Council	
Shamheer Khan	Council	
Mohammed Farooq	Council	
Fahim M	Council 1	
Sobhan	Council	
Abdul Wahid	Project Officer	
Abdul Majeed	GA Village Council	D. Director
Shazma Mohamed	" "	Director
Muhammad Mohamed	Council member	
Muhammad	URSC	PRESIDENT
Sauadullah	Atoll Council	Counciler
Mohamed Aziz	s. admin	
Muhammad	DRM / LIVING ROOM	in-charge
Ahmed Ahmed	MRDC	A. Manager
Farhan Alashim	Council Staff	Asst. Dir.
Fahima Abdour	Maananga	
Musana Mohamed	GA Atoll Hospital	Receptionist

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17) ガッドウ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<ul style="list-style-type: none"> • We have shown areas where tower can be located. • Land has not been approved by the council yet (no request yet) • Information regarding the project is not given to the public. • Not heard about the project.
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • Over all the community will support the project. If it is development project.
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<p>Concerns:</p> <ul style="list-style-type: none"> • What will be the benefit for the community? • Whether any free channels will be given? • Without any benefit why land is allocated? • Limited land is available from the island. Lot of land areas taken for other projects. But the public is not getting any benefit. • Lightning occurs to the tower and damages electronic items in the past. This may happen due to the proposed tower also. This is a concern for the community.
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • Project site (land) should leased for rent (and council should get the fee) • Safety and security should be considered.
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<ul style="list-style-type: none"> • No major impact due to the project. • Limits the availability of land for other purpose (no land for waste management, powerhouse, housing etc)
<p>In your opinion, are there any positive impacts or benefits associated with the project?</p>	<ul style="list-style-type: none"> • Local job opportunities might be created.
<p>Is there an alternative location for the site selection?</p>	<ul style="list-style-type: none"> • Proposed location is the ideal location
<p>Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)</p>	<ul style="list-style-type: none"> • New technology is needed. • All the services should be made available through the network (TV, telephone, net etc)
<p>Will there be likely involvement of local people in the implementation of the project?</p>	<p>Local contractors should be involved</p>

Loss of residential/commercial structures, if any due to the project	No
Loss of community life like any market places or community activities to be affected?	With this project government can control all media
Is the site prone to disasters?	
Is this consultation useful? Comments?	<ul style="list-style-type: none"> • Yes • Only PSM and JAICA could provide more and appropriate information (such as fees and service providers and whether there will be free channels and so on).

Name	Organization or Address	Designation
<i>[Signature]</i>	<i>[Signature]</i>	
Samiya A. Alghamdi	Beach Women Samiya Abdul Muhaimin	
Aishath Shaheen	Mistry 10/1 Aishath Shaheen	
Abdulla Rasool	Agumathige	
Mahmood Marwan	Adel Khamis	
Mohammed Samir	Island Council W. E. S. S. S. S.	Council member shyjaunimohd
Ahmed Yameen	Council member	Council member
Abdullah Sadiq	Island Council Bemhang Bemhang	Council member Councilor
Phehilla Inud	Island Council Dactyl	President of
Silman Salih	Dhiraagu	S. Officer
Ahmed Saaved	Health Centre Foolhumaage.	S. Admin. of
Ali Shams	Beach Women	
Fathimath Ismail	Fath. Atoll school	Principal

Close to the public due to confidentiality

18) フィヨアリ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<ul style="list-style-type: none"> • There is an antenna but no service...so people question about it. • Support is there (we support this project). • Yes, we heard about the project (previously also survey was done).
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • Fully support. Because some channels are not available • We are waiting for the service...we will provide our full support.
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • People questioned about when the service will be available from the project • Right now only limited channels are available • Right now religious channel is also not available • Right now only 3 channels available • If it rains no signal • What will happen to the current services providers? • Years back antenna was installed and equipments were brought but project was not implemented. • People questioned whether the project will happen? This is our concern (will it be implemented?)
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • Children educational channels should be there • More channels should be available • Services should be sustainable • Services should be cheap • Some contents should not be allowed • Sports channels should be there for youth. • Signal should not be interrupted
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<p>If the project delays then it is a problem Waste should be handled properly</p>
<p>In your opinion, are there any positive impacts or benefits associated with the project?</p>	<p>Channels are needed for the island</p>
<p>Is there an alternative location for the site selection?</p>	<p>Since existing antenna is already available and enough space is already available...this is the best location Best location Location is one of the highest area...water table will be high</p>
<p>Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the</p>	<ul style="list-style-type: none"> • Locals should be informed about the charges and why the amount is charged? • Publics should be informed about channels that they will be getting • If the project delays it will be a problem (concern)

Implementation, security measures, etc)	<ul style="list-style-type: none"> We would like to see this project implemented as early as possible.
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> Island community will be involved (exemplary & land) For monitoring locals should be involved.
Loss of residential/commercial structures, if any due to the project	No
Loss of community life like any market places or community activities to be affected?	No
Is the site prone to disasters?	
Is this consultation useful? Comments?	Without this kind of meeting we will not be able to implement the project and shows that the project is going ahead. We are happy about the meeting and got information was provided.

Name	Organization or Address	Designation
MUHAMMAD SHARIF	FLUOROPY COUNCIL	V. PRESIDENT
SECRETARY	"	C. MEMBER
ABDUL RAHMAN	"	"
MUHAMMAD WAHID	"	"
HASSAN ADAN	to Admin. Dept. Council of Islands	
AL-FITRIY	FLUOROPY COUNCIL	FLUOROPY COUNCIL
Ahmed Elshah	F. H. C. - 1000	FLUOROPY COUNCIL
MUHAMMAD ADAN	FRANZA	F. H. C. MEMBER
MUHAMMAD SAJJAD	Police	FLUOROPY COUNCIL
Muhammad Shabir	Fluoropy Health Centre	FLUOROPY COUNCIL
Muhammad Shabir	FLUOROPY	FLUOROPY COUNCIL
Abdul Rauf	FRANZA	FLUOROPY COUNCIL
Muhammad Bushair	Council	FLUOROPY COUNCIL
Muhammad Bushair	Council	FLUOROPY COUNCIL
MUHAMMAD ABU BAKR		FLUOROPY COUNCIL
MUHAMMAD ABU BAKR		FLUOROPY COUNCIL
ABDULLAH NASEEM		FLUOROPY COUNCIL
Abdul Wahid	FLUOROPY	FLUOROPY COUNCIL
Ahmed Nazeem	FLUOROPY	FLUOROPY COUNCIL
Muhammad Adnan	FLUOROPY	FLUOROPY COUNCIL
Muhammad Saad	Council	A. Director
Muhammad Mustafa	FLUOROPY	FLUOROPY COUNCIL

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19) ティナドゥ

Issues	Participants' opinion, comments and suggestions
<p>General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?</p>	<ul style="list-style-type: none"> • Good and important project for the area-Right now also PSM building is there but no proper service. • Will be good if the project is implemented • Community will support the project • Some are not aware of the project • Proposed site is not allocated and approved by the council • Proposed site location is given to road construction contractor for one year • There should be proper communication with the council (we have not received any written communication) • Council would like to know PSM thinking regarding the current land area (and the PSM buildings) • Masquita's in PSM office area
<p>Support of the local people for the proposed project</p>	<ul style="list-style-type: none"> • We welcome the project
<p>Any critical issues or concerns, problems by the local people regarding the project?</p>	<ul style="list-style-type: none"> • Not sure whether the project will be implemented • Proposed location is flight approaching area • Closed to sea area-might not be appropriate (maintenance will be high). Should consider aviation and safety. • What will happen to current service providers? (might create monopoly) • Will there be any radiation issue for the people?
<p>Are there any criteria you would like to see considered during the project design, construction and operation stage?</p>	<ul style="list-style-type: none"> • Should provide quality service • Should be same or lower price • Competition should be there in providing the service • Free channels should be there • Should have choice to choose packages or channels • Educational channels should be there • Jobs should be given to island people
<p>In your opinion, are there any negative impacts or losses associated with the project?</p>	<ul style="list-style-type: none"> • No negative impacts. • Might create aviation hazard • Government might control the media (might block the channels)
<p>In your opinion, are there any positive impacts or benefits associated with the project?</p>	<ul style="list-style-type: none"> • Good coverage • Quality will be maintained • Business will increase • Customer problems also will be attended quickly or minimized • Jobs will be created
<p>Is there an alternative location for the site selection?</p>	<p>PSM land area Maintenance might be high due to proximity to sea</p>

Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> If the project is implemented within the time frame will be good How long it will take to implement the project? Why the current PSM site is not used? Contents should be controlled for children
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> Jobs should be given and local companies should be involved. Most of the previous projects are implemented through council, so there will be local involvement.
Loss of residential/commercial structures, if any due to the project	no
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	Waves
Is this consultation useful? Comments?	Yes, good information

Name	Organization or Address	Designation
Mr. P. R. Reddy	Hyderabad	FOODS
Yunus Khan	Guwahati	-
Hassan Khan	Saleem	-
ABDUL AZEED KHAN	MALINDI, KENTUCKY	MANAGER
AHMED MUSA	DHAKA	SENIOR TECH
AHMED USMAN	ORIGIN STORE	OWNER
ABDUL RAHMAN	FRESH DASHI	OWNER
MOHAMMED ZAHID	VILUPA	-
HASSAN AHMED DIDI	STARLINE	-
Muhammad Ali	Thimath Council	-
Azam Abdul Wahid	Dhaka	-
ABDUL RAHMAN	White Creek	-
Ahmed Hassan	Mangalore	-
Sahib Khan	Dhaka	-
Fazal Khan	M. P. D.	OWNER
Muhammad Shaker	M. P. D.	OWNER
Muhammad Wasim	M. P. D.	COUNCIL
Sana Khan	Thimath Council	COUNCIL
NASIR AHMED	Thimath Council	Assistant Director
Qasim Khan	Thimath Council	COUNCIL

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20) フォームラク

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your Island?	<ul style="list-style-type: none"> Local people have sufficient knowledge They believe that after implementation they can easily access to the information like education and general awareness.
Support of the local people for the proposed project	We support and others also will fully support
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> No issue
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> Price should be low Educational channels Should be well maintained
In your opinion, are there any negative impacts or losses associated with the project?	It is for the benefit of whole population, so there will be no negative impact.
In your opinion, are there any positive impacts or benefits associated with the project?	<p>More information Better quality of service Warning dissemination</p>
Is there an alternative location for the site selection?	No, best location
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<p>Local public will welcome this project. No security threat People are in need of it</p>
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> Yes, local labor force is available for construction work
Loss of residential/commercial structures, if any due to the project	no
Loss of community life like any market places or community activities to be affected?	no
Is the site prone to disasters?	no
Is this consultation useful? Comments?	Yes, everyone will give full support and corporation.

Name	Organization or Address	Designation
Abdulla Falaah Shareef	Fuvahmulaku Atoll Council	President
Ahmed Mohamed	Fuvahmulaku Atoll Council	Director
Ali Maseeh	Fuvahmulaku Atoll Council	Assistant Director
Ibrahim Mauroof Saeed	Naarasy	-
Ibrahim Hisan	Redcresent	Branch Secretary
Ahmed Siyam Moosa	Gn. Atoll Education Centre	Administrator
Hussain Shaafee	Fuvahmulaku Atoll Council	Vice President
Moahmed Areef	Fuvahmulaku Atoll Council	Deputy Director
Thasneem Ali Zaheer	Gn. Atoll Education Centre	
Fathimath Ali	Secretariat of the Hoadhadu Council	
Shazna Abdulla	Forum, Gn. Fuvahmulah	
Fathimath Shuma	Hafiz Ahmed School	
Fathimath Ali	Dhoalhanbuge, Gn. Fuvahmulah	
Fathimath Dheem		

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21) ヒタドゥ

Issues	Participants' opinion, comments and suggestions
General perception about the project and the awareness about the proposed project. What is the opinion of the community regarding the project in your island?	<ul style="list-style-type: none"> • Project is good and important for the island • Not heard about the project
Support of the local people for the proposed project	<ul style="list-style-type: none"> • Community will support the project
Any critical issues or concerns, problems by the local people regarding the project?	<ul style="list-style-type: none"> • Project might not be implemented (since some projects are not implemented) • Right now goods service not available • Other islands in the city are paying less right now • During construction workers safety should be considered
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul style="list-style-type: none"> • Dhivehi channels should be free • Price should be lower than now • HD quality sports (football) channels should be there • For payment there should be more options • News channels should be made available • PSMs should be the service provider
In your opinion, are there any negative impacts or losses associated with the project?	<ul style="list-style-type: none"> • There might be some inappropriate channels • Price might be higher (not good)
In your opinion, are there any positive impacts or benefits associated with the project?	<ul style="list-style-type: none"> • Picture quality will be good • Good service will be available • More service providers might be there (more competition) • More job opportunities • Religious and Quran channels might be available
Is there an alternative location for the site selection?	Best location since it's the middle of the island.
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the implementation, security measures, etc)	<ul style="list-style-type: none"> • Will there be more channels? • Will there be charges? • Customers should be notified before disconnecting the service • There should be possibility of selecting channels
Will there be likely involvement of local people in the implementation of the project?	<ul style="list-style-type: none"> • There are many companies who can do the construction work. So they might be involved.
Loss of residential/commercial	no

structures, if any due to the project	
Loss of community life like any market places or community activities to be affected?	
Is this consultation useful? Comments?	Yes. Important information

Name	Date:	
	Organization or Address	Designation
Md. Masud Ferdous	H. Hospital	Master
Sham Nazem	Island TV	Executive
Mossam Nazem	Sami Hill	-
Shabir Mahmud	Shi. Kanyon (Kwidi)	Teacher
Sulhan Hassan	Kangaroo kids	Teacher
Ali. Hossain Hossain	Kirtibhanga	-
Masudul Hossain	Asanmulla	-
Masudul Hossain	Dyabhanja	-
Atiqul Hossain	Lunfowla	-
Ali. Shamsul	Figon-gc	-
Masudul Hossain	Dharmabanga	-
Fahim Hossain	Bodhanmura	-
Touhidul	Vandhanmura	-
Alauddin	ONDRODORHUMURA	-
Hossain	MANDHOORSE	-
Atiqulla Hossain	White Rose	-
Masudul Hossain	Adina / S+7	Nurse

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