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

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(Witness)

Hiroshi SAITO

Resident Representative

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Aishath Azeema

Joint Secretary

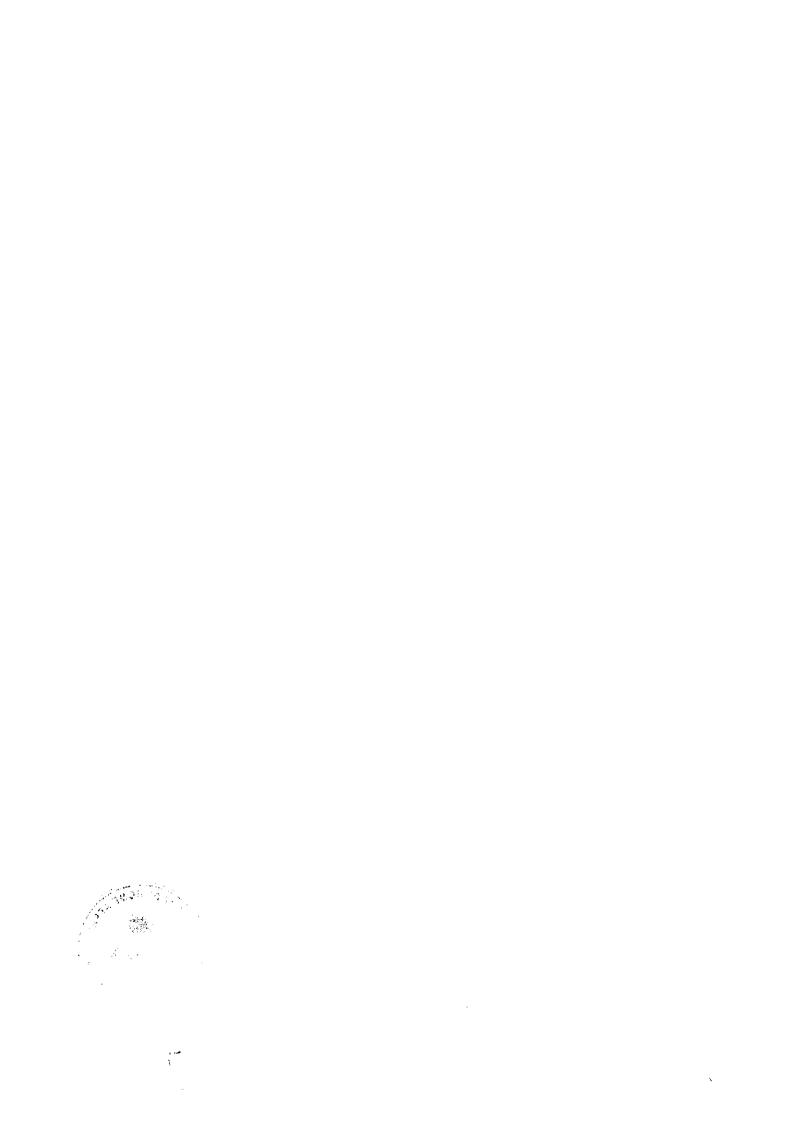
Ministry of Foreign Affairs

The Republic of Maldives

CC: Mohamed Shahyb, 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.

#### [Ouantitative 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,



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.

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### 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







### 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)

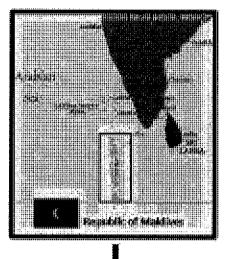
Annex 11: Environmental Check List

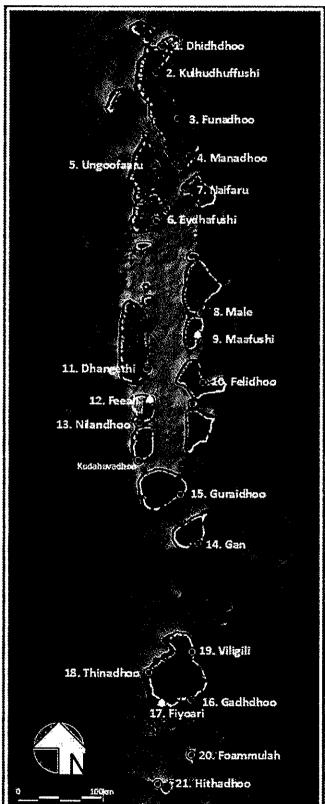
Annex 12: Environmental Management Plan / Environmental Monitoring Plan

Annex 13: Environmental and Social Monitoring Form



### **Project Sites**





- Network Operation Center
   Transmitting Station
- O Micro Wave Relay Station

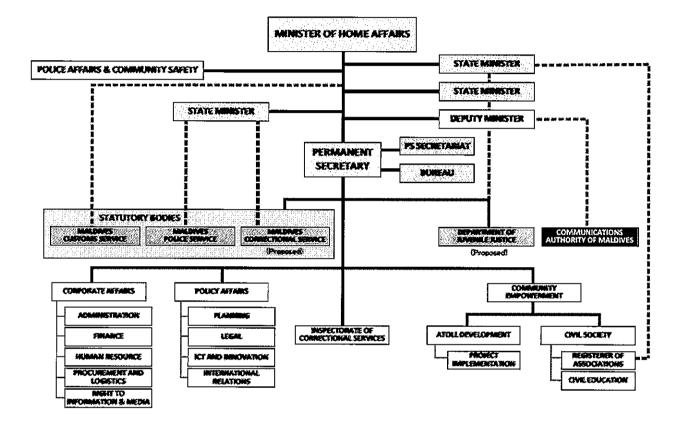


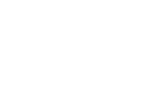


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### **Organization Charts**

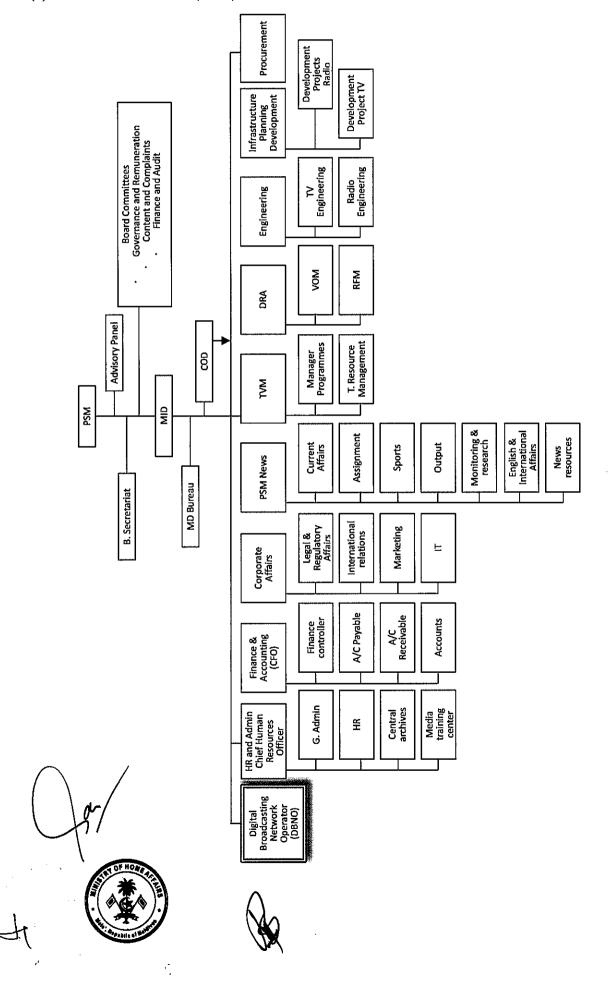
### (1) Ministry of Home Affairs







### (2) Public Service Media (PSM)



### **Project Cost Estimation**

### 1. Cost Estimation Borne by the Government of Japan

		Cost
	Components	Estimation
		(Million Yen)
Procurement	Digital transmitting system	
and	NOC system	
Installation	PSM equipment	2.002
	Assembly boxes	2,092
	Spare parts	
	Measurement and maintenance equipment	NAMA Andread A
Construction	Antenna towers/poles	595
Detailed desig	n and Procurement Supervision	173
Contingencies		38
	Total	2,898

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

	Cost	
Item	Estimation	Note
	(MVR)	
Approval for IEE/EIA	550,000	13 sites
Removal of existing antenna, feeder,	2,180,000	
foundation, trees and leveling the sites		
Relocation and operational cost for	1,400,000	Ungoofaaru, Eydhafushi, Felidhoo,
existing transmitting equipment to		Nilandhoo
temporary sites		
Securing backup power to NOC	1,097,400	20kVA
equipment		
Securing commercial power supply to	798,000	Cable: MVR 1,200/m
all transmitting and relay stations		Installation of cable: MVR 100/m
		Meter:MVR 12,000/site
Renovation and preparation of NOC	2,800,000	
area		
Internal Tax	6,377,383	Goods and Services Tax 6%
4 .		



	Cost	
Item	Estimation	Note
	(MVR)	
Bank commissions (Advising	370,313	Approximately 0.1% of the total
commission of Authorization to Pay		Project cost
(A/P) and payment commission		
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 singed 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.

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### (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.



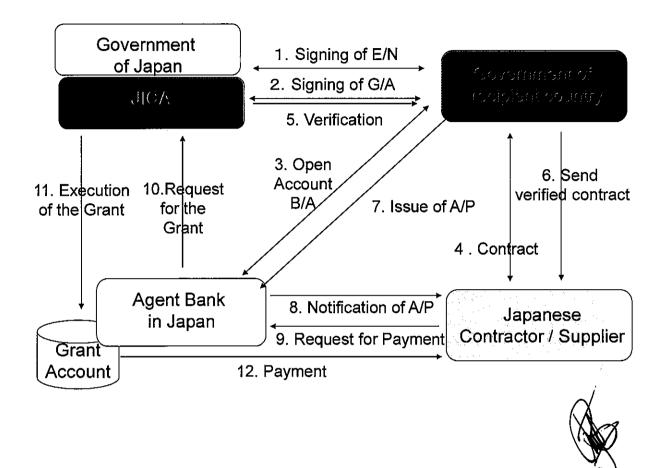


Annex 5

Flow Chart of Japanese Grant Procedures Reciplent Government Japanese Government Consultant Contract Olkers Flow & Works Stage Application \*If necessary Project Lientificación Evaluation of the Screening of Project request Surey\* Field Survey. Executation and \*if necessary Project Formulation & Reparent Proparation Selection & Preparations Survey Field Survey. Examination and Continuiting of Outline Design Consultant by त्रेणस्थ Represent Explanation of Onch Survey Report Final Report Apprecial of Project Appraisal & Approval a Maistacia Cogszillation Presentation of Durch Notes Appearal by the Cabinet (EN: Exchange of North) ENMAGA (G/A: Good Agreement) Saling (AP: Authorization to Pay) Name and Parties Issumes of Verticales Constituti Constituti J.P Implementation Danibai Danga & Appareal by Dreparation for Textisting erie Decembr Recipient Ser junion Vertication AP Completen Сорыежное 47 Certificate F Operation Post Evaluation Stady Evaluation& Ev-post Evaluation **Говен пр** Follow up

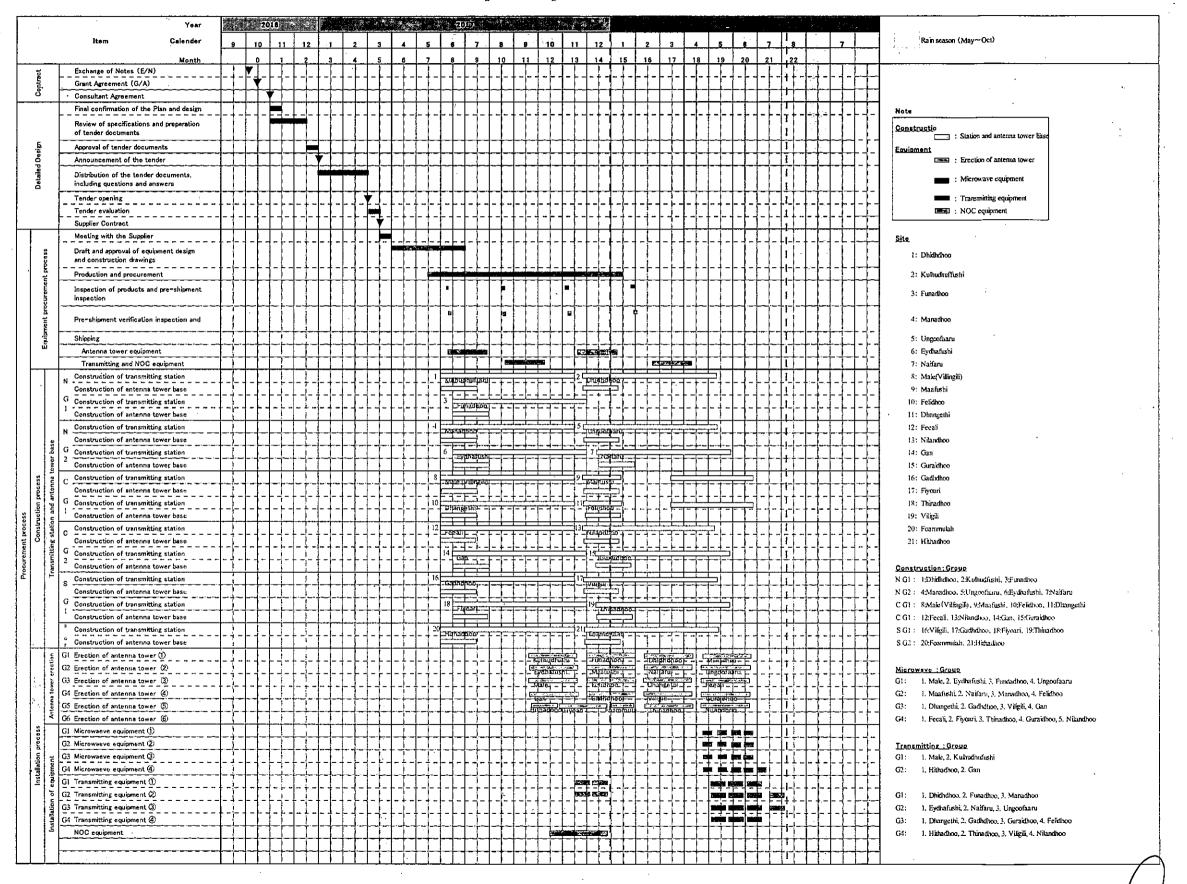


### Financial Flow of Japanese Grant





### **Expected Implementation Schedule**



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Selection (

### Major Undertakings to be taken by Each Government

### I. Major Undertakings to be taken by Recipient Government

1. Before the Tender (Cost: Thousand MVR)

$\overline{}$				212 122	
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	
	To implement EIA	before conclusion of G/A	PSM		
4	To secure the following lands	before conclusion	MoHA/		
	land for transmission station	of G/A	PSM		
5	To obtain the planning, zoning, building permit	before notice of the			
		tender document	PSM		
	To clear, level and reclaim the following sites	before notice of the		2,180	
$\overline{}$	1) the sites for transmission stations	tender document	PSM		
	Preparation of a DTTB Master Plan				
	Establishment of a broadcasting network				
	a)Study on coverage expansion to remote islands by	before end of the	MoHA/		
	preparation of a transmitting station site plan	preparatory survey	PSM		
	2) Frequency plan	during the	CAM		
		preparatory survey			
	3) the schedules for DSO/ASO and simulcast	before conclusion of G/A	PSM		
	4) Assistance plan and budgetary measures for TV	before end of the	MoHA/		
	broadcasters	preparatory survey	PSM		
8	Preparation of DTTB migration plan	ĺ			
	<ol> <li>Plans to promote purchase of new TV receivers, assist poor households and dispose of disused analogue TV receivers</li> </ol>	before DSO	PSM		
	<ol> <li>Promotion of the purchase of TV receivers and import of DTTB-compatible equipment</li> </ol>	before DSO	PSM		
	3) Study on Platform Equipment Plan				
	a) Equipment outside the scope of the Project	before end of the	MoHA/		_
		preparatory survey	PSM		
-	4) Study on business model of DTTB platform including	before conclusion	PSM		,
	private broadcasters' participation to the platform	of G/A			
9	Legal Framework and Guidelines				
	Amendment of broadcasting laws and regulations	before conclusion of G/A	MoHA/C ommissio n		
	<ol> <li>Amendment of broadcasting-related laws and introduction of multiplexing license</li> </ol>	before completion of the Project	MoHA/C ommissio n		
	a) Decree on establishment of the DBNO	before conclusion of G/A	МоНА		
	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	Commiss ion	
	Licensing standards	before conclusion		
10	Equipment procurement and construction work			
	Study on use of existing properties	during the preparatory survey	MoHA/ PSM	
11	Organizational and Human Resource Development			
	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)

	aring the reject implementation	,	THOUSAND		
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 singing of the contract	MoHA/ PSM		
	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				
	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	
	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				
	Providing power supply to all the Transmitting and Relay Stations	before equipment at the sites		798	
	Relocation and operational cost for Eydhafushi existing transmitting equipment	before equipment at the sites	PSM	350	
	Securing the space for installation of NOC equipment	before equipment at the sites	PSM	2,800	
	Providing backup power facility to NOC equipment	Before equipment at the sites	PSM	1,098	







	5) Providing optical fiber connection to the designated transmitting stations	Before equipment at the sites	PSM		
	material storing yard, temporary construction yard and waste disposal	before equipment at the sites	PSM		
	Project site	before equipment at the sites		2,180	I-6
	<ol> <li>Demolishing the existing antennas, feeders and foundation, and leveling the site</li> </ol>	before equipment at the sites	PSM	2,180	2-6-7)
	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		
		before equipment at the sites	PSM		
	c)Parking lots if necessary	before equipment at the sites	PSM		
	<ol> <li>Installation of optical fiber cables for the programme transmission between Carrier's NOC and transmitting stations if necessary.</li> </ol>	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		
	<ol> <li>To submit results of environmental monitoring to JICA, by using the monitoring form, on a quarterly basis as a part of Project Monitoring Report</li> </ol>	during the construction	PSM		
	To implement RAP (livelihood restoration program, if needed)	for a period based on livelihood restoration program	PSM		
	Extension of the monitoring will be decided based on	- 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	PSM		
		provided)			

### 3. After the Project

NO	Items	Deadline	In charge	Cost	Ref.
٤.	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
<b>2.</b>	To implement EMP and EMoP	for a period based on EMP and EMoP	PSM		

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	To submit results of environmental monitoring to JICA, by	for three years after	PSM		
	using the monitoring form, semiannually	the Project			
	- 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.				
3	To secure the budget of programme transmission links manage	Before actual	PSM	2,620	4
	by carriers	operation of the			
		platform			
		commencement			

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

4. Estimated annual maintenance and operation costs for DBNO

T4		Total
Item		(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			
	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		2,687	
	b) Internal transportation from the port of disembarkation to the project site	during the Project		
	2) To construct facilities	j		
	3) To provide equipment with installation and commissioning			
	To implement detailed design, tender support and construction supervision (Consultant)		173	
3	Contingencies		38	
	Total		2,898	

<sup>\*;</sup> The cost estimates are provisional. This is subject to the approval of the Government of Japan.





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# تر رئيرين شهرت مركومي المراد والراء والمراد و

سَرُسُرِهَ مُرُ: Ref: 165/JICA/2016/01

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:

j.	Costonii Par	
1	30	546
2	31	554
3	32	562
4	33	570
5	34	578

		32(44)37 <b>93</b> (43(1827)
6	35	586
7	36	594
8	37	602
9	38	610
10	39	618

Yours sincerely

Ilyas Ahmed Chief Executive



ئۇۋ: Tel: 3323344 تۇۋىشە: Fax: 3320000

Republic of Maldives

Male',

TELÉCOM Building

و - ځونو: e-mail: secretariat@cam.gov.mv



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

### Organization Information

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

### **Outline of Grant Agreement:**

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





1:	Project Description
1-1	Project Objective
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.
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

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

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

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

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

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

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



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5. Baggage Inspection System for Dhaka Int'l Airport	i) Hold Baggage Xray Inspectin system 7sets	Ditto
	ii) Hold Baggage Explosive Trace Detecting System 7sets	
	iii) Cabin Baggage Xray Inspection System 2sets	
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)				
(a. a y				

#### 2-2

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

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

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

<sup>\*</sup>Project Completion was defined as \_\_\_\_\_ at the time of G/A.

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

	Orig	inal	
Items	DOD	G/A	Actual
Cabinet Approval	11/2015	-	-
E/N	12/2015	1/2016	24/1/2016
G/A	12/2015	1/2016	24/1/2016 Amended 13/3/2017
Detailed Design	12/2015-4/2016	1/2016-5/2016	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/ <b>2</b> 016-11/2018	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 <u>Check-out of Construction work</u> 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 Cost2-4-1 Project Cost

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

	Items	(Mf	Cost Ilitom Yen)	
	Original	Actual	Original	Activial
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	- Detailed design	•		
Services	-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

	Îffe	mis		Cost Million USD)
Market Company	Original	Actival	Origina	il Actual
- 144 O.				Please state not
				Please state not only the most

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		updated schedule but
		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)

2013	(Commented minimum)			
	<u>ltein</u> ts	angen e se se se est	(Millio	osi m Yem)
	Oniginal	Ayefual	Original <sup>(0)</sup>	Actual
Construction	1. Outpatient Department	Ditto	1,169.5	1,035.0
Facilities	Operation Theatre, Casualty Unit, Maternity Ward	Ditto		
Equipment	1) Primary and Secondary Surveillance Radars at Chittagong Int'l Airport	Ditto	2,374.6	2,110.0
	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			
Consulting Services	- Detailed design -Procurement Management -Construction Supervision	Ditto	0.87	0.87
	-Soft Component			i
	Total		3544.97	3145.87

Note:

1) Date of estimation:

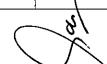
October, 2014

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

er e	Cost (at 000 Tracks)			
	Original material and a second second second	Achiell	Ongmal@2	Aschuo
Dhaka International	Modification of software of existing Rader Data Processing System	Ditto	8,000	9,240
Airport	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	Ditto	4,000	5,340
	international passenger terminal			
	building			
Chittagong	Preparation of the radar site	Ditto	5,000	3,400
Int'l Airport	including felling of trees, clearing			
	and grabbing	;		
	Total		22,000	20,433

У.	

- 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.

_	remedies you have taken, and their results.	
l	(PMR)	_
I		
l		
l		

#### 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.

	or employ	ees.			
Original:	(M/D)				
l					
Actual, if	changed:	(PMR)			
ı					

#### 2-6 Environmental and Social Impacts

- The results of environmental monitoring as attached in schedule 4 of the Grant Agreement.
- The results of social monitoring as attached 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)



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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 Countermeas 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):





3.		Probability: H/M/L
(Desc	ription of Risk)	Impact: H/M/L
		Analysis of Probability and Impact:
		Mitigation Measures:
ļ f		11116
		Action designs the Implementations
		Action during the Implementation:
<u> </u>		Contingency Plan (if applicable):
Actua	l issues and Countermeasure(s)	
(PMR)		
5:	<b>Evaluation at Project Completi</b>	on and Monitoring Plan
000.000000000		
<b>5-1</b>	Overall evaluation	
	Please describe your overall evaluation	n on the project.
	·	
5-2	Lessons Learnt and Recommendation	ns
	Please raise any lessons learned from	the project experience, which might be valuable
		ype of projects, as well as any recommendations,
		er realization of the project effect, impact and
	assurance of sustainability.	
5-3	Monitoring Plan for the Indicators fo	or Post-Evaluation
• -	<del>-</del>	hods, section(s)/department(s) in charge of
		nonitor 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)





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1. Initial Conditions (Confirmed)

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	Ţ	2	3	4	ည	

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

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		23	3	4	ರ	
iud (A)	Item 1	Item 2	Item 3	Item 4	Item 5	
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(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)

	(C/D%)	(B/D/8)	(A/D%)	Total
	(C/D%)	(B/D%)	(A/D%)	Design and Supervision Cost
	(C/D%)	(B/D%)	(A/D%)	Equipment Cost
	(C/D%)	(B/D%)	(A/D%)	others
	(C/D%)	(B/D%)	(A/D%)	Direct Construction Cost
	(C/D%)	(B/D%)	(A/D%)	Construction Cost
	С	В	A	
D	(Third Countries)	(Japan)	(Recipient Country)	
Total	Foreign Procurement	Foreign Procurement	Domestic Procurement	





## Annex 11

# **Environmental Check List**

Environmental Item	Main Check Items  (a) Have EIA reports been already prepared in official process?  (b) Have EIA reports been approved by authorities of the bost country's government?  (c) Have EIA reports been unconditionally approved? If conditions are imposed	(a) N (b) N (c) N	Confirmation of Environmental Considerations (a) (b) (c)
(1) EAA and Environmental Permits	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?	`	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	<ul> <li>(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?</li> <li>(b) Have the comment from the stakeholders (such as local residents) been reflected to the project design?</li> </ul>	(a) Y (b) Y	<ul> <li>(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.</li> <li>(b) The comments of stakeholders meeting such as safety during construction, request for communication program, etc. have been reflected to the project design.</li> </ul>
(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.
(1) Air Quality	<ul> <li>(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?</li> <li>(b) Are electric and heat source at accommodation used fuel which emission factor is low?</li> </ul>	(a) Y (b) N/A	<ul> <li>(a) There will be no emissions from the completed facilities. Emissions during construction will be controlled by monitoring.</li> <li>(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.</li> </ul>









						Сатедогу
(7) Odour	(6) Subsidence	(5) Noise and Vibration	(4) Soil Contamination	(3) Waste	(2) Water Quality	Environmental Item
(a) Are there any odour sources? Are adequate odour control measures taken?	(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) Do noise and vibrations comply with the country's standards?	(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) Are wastes from the infrastructure facilities and ancillary facilities properly treated and disposed of in accordance with the country's regulations?	(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?	Main Check Items
(a) N	(a) X	(a) Y	(a) Y	(a) Y	(a) Y	Yes: Y No: 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 certific	(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.	(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.	(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	(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.	(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.	Confirmation of Environmental Considerations (Réasons of Yes/No, Mitigation Measures)



. . . .

Y  Confirmation of Environmental Considerations  (Reasons of Yes/No, Mitigation Measures)	adjacent to Environmental Sensitive Areas, Environmental Protection 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.	(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 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 flore 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.				
Yes: Y No: N	(a) N	(a) (b) (c) (b) (d) (v) (d) (v)	(a) N			
Main Check Items	(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?	<ul> <li>(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)?</li> <li>(b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions?</li> <li>(c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem?</li> <li>(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?</li> </ul>	(a) Is there a possibility that hydrologic changes due to the project will adversely affect surface water and groundwater flows?			
Environmental Item	(1) Protected Area	(2) Ecosystem	(3) Hydrology			
Category		3 Natural Environment (2)				

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			4 Social Environment		Category
	(3) Heritage	(2) Living and Livelihood	(1) Resettlement	(4) Topography and Geology	Environmental 
	(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) 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) 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) 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?	Main Check Items
	(a) Y	(a) Y	(a) N/A (b) N/A (c) N/A (d) N/A (e) N/A (f) N/A (h) N/A (j) N/A (j) N/A (j) N/A	(a) N	Yes: Y No: N
R/	(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.	(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.	(a) (b) (c) (d) (e) (f) (g) (h) (i) (j) There will be no resettlement of residents. Necessary lands are ensured by the PSM.	(a) The target sites are flat ground several meters above sea level, and there will be no change to the topography or geological structure.	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)



Main Check Items       Yes: Y       Confirmation of Environmental Considerations         No: N       (Reasons of Yes/No, Mitigation Measures)	(a) Is there a possibility that the project will adversely affect the local landscape?  Are necessary measures taken?  Are necessary measures taken?  (b) N  (c)  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.	(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous people?  (b) N/A (l)  (c) Are all of the rights of ethnic minorities and indigenous people in relation to land and resources respected?  (a) N/A (b)  (b) N/A (c)  (c) Are all of the rights of ethnic minorities and indigenous peoples on the islands with target sites.	<ul> <li>(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 the working conditions of the country which the project proponent should observe to the working conditions of the country which the project proponent should observe the working conditions of the country which the project project project such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials?</li> <li>(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.?</li> <li>(d) A guard will be deployed to provide guidance.</li> <li>(e) A labour health and safety plan will be formulated, notified to the workers, and implemented.</li> <li>(d) A guard will be deployed to provide guidance.</li> <li>(e) A labour health and safety plan will be formulated, notified to the workers, and implemented.</li> <li>(d) A guard will be deployed to provide guidance.</li> <li>(e) A labour health and safety plan will be formulated, notified to the workers, and implemented.</li> <li>(d) A guard will be deployed to provide guidance.</li> <li>(e) A labour health and safety plan will be formulated, notified to the workers, and implemented.</li> <li>(d) A guard will be deployed to provide guidance.</li> <li>(e) A labour health and safety plan will be formulated, notified to the formulated accidents and implemented in the project, such as the establishment of a safety and public health) for workers etc.?</li> <li>(d) A guard will be carried out.</li> <li>(d) A guard will be deployed to provide guidance.</li> <li>(e) A labour health and safety plan will be individuals involved in the project and implemented for individuals involved in the project and implemented for individuals involved in the project and implemented for individual</li></ul>	<ul> <li>(a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and waste)?</li> <li>(b) Y high noise and vibration operations will he set, labour safety measures and mitigation measures considered to reduce impacts?</li> <li>(b) Y high noise and vibration operations will he set, labour safety measures and mitigation measures considered to reduce impacts?</li> <li>(c) Y mitigation measures will be implemented.</li> <li>(d) For the foundation excavation which will have the greatest effect on the natural environment, are adequate measures considered to reduce impacts?</li> <li>(e) Y mitigation measures will be implemented.</li> <li>(f) For the foundation excavation which will have the greatest effect on the natural environment, are adequate measures considered to reduce impacts?</li> <li>(c) Y mitigation measures will be implemented.</li> <li>(d) Mitigation measures will be implemented such as formulation of a plan to mitigate traffic obstruction for the residents due to the construction.</li> </ul>
	(a) Is there a possibili Are necessary measu (b) Is there a possibil buildings such as hug	(a) Are consideration ethnic minorities and (b) Are all of the righ land and resources re	(a) Is the project prop the working condition in the project? (b) Are tangible safet project, such as the in accidents, and manag (c) Are intangible me involved in the projec programme, and safet workers etc.? (d) Are appropriate m project not to violate	(a) Are adequate mea noise, vibrations, turk (b) If construction acl are adequate measure (c) If construction act measures considered
Environmental Item	(4) Landscape	(5) Ethnic Minorities and Indigenous People	(6) Working Conditions	(1) Impacts during Construction
Category				5 Other





	6 Note			Category
Note on Using Environmental Checklist	Reference to Checklist of Other Sectors	(2) Monitoring		Environmental Item
(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).	(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).  (b) For projects, such as installation of telecommunication cables, power line towers, and suhmarine cables, where necessary, pertinent items described in the Power Transmission and Distribution Lines Checklist should also be checked.	(a) Does the proponent develop and implement monitoring programme for the environmental items that are considered to have potential impacts? (b) What are the items, methods and frequencies of the monitoring programme? (c) Does the proponent establish an adequate monitoring framework (organisation, personnel, equipment, and adequate budget to sustain the monitoring framework)? (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?		Main Check Items
(a) Y	у (ф) () ()	(a) Y (b) Y (a) Y		Yes. Y No: N
(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.	<ul><li>(a) Roads, railways, and bridges are not relevant.</li><li>(b) A checklist for electrical power transmission, transforming, and distribution has been confirmed.</li></ul>	(a) The project promoter PSM will prepare an EIA Management Department by employing staff. (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. (c) This will be implemented by the PSM management. (d) Although not currently prescribed, this will be prescribed in the environmental decision documents of the EPA.	notification of the residents, and control.	Confirmation of Environmental Considerations (Reasons of Yes/No, Mitigation Measures)

of the project and the particular circumstances of the country and locality in which the project is located. diverge significantly from international standards, appropriate environmental considerations are required to be made. In cases where local environmental regulations are 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 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 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





7. 3.

Environmental Management Plan / Environmental Monitoring Plan						
Environmental Item	Item	Point	Frequency	Responsible Agency		
Air Quality	SPM, CO, NO <sub>2</sub> , SO <sub>2</sub>	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		





#### **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	Measured Value	Country's	Referred	Remarks
	Value	(Max.)	Standards	International	(Measurement
	(Mean)		(Sri Lanka)	Standards	Point,
			μg/m³		Frequency,
					Method, etc.)
CO			30,000 (1 hr)	30,000 (1 hr)	5 times per site
NO <sub>2</sub>			250 (I hr)	200 (1 hr)	5 times per site
$SO_2$			200 (1 hr)	20 (24 hrs)	5 times per site
SPM			500 (1 hr)	50 (24 hrs)	5 times per site
(suspended		{	, ,		-
particulate					
matter)					

### - 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		5 times per site
COD			water quality		5 times per site
SS (suspended solids)			of the nearby shallow wells, and adjust mainly the turbidity of the wastewater to that level or lower.		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)



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

#### 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	







#### 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)

(a)	保護局類 (70 種)	产生产 H	TH LILE F	HIONI) > L 7 /\sc
No.	一般名(英語名)	学術名	現地名	IUCN による分類
1	Asian Koel	Eudynamys scolopacea scolopacea	Dhivehi Koveli	
2	Audubon's Shearwater	Puffinus lherminieri	Dhivehi Hoagulhaa	
3	Black Bittern	Dupetor flavicollis	Kalhu Raabondhi	
4	Black Headed Heron	Ardea melanocephala	Noo Maakanaa	
5	Black-crowned Night Heron	Nycticorax nycticorax	Raabondhi	
6	Black-Headed Gull	Larus ridibundus	Boakalhu Gohorukey	
7	Black-Naped Tern	Sterna sumatrana	Kirudhooni	
8	Black-Tailed Godwit	Limosa limosa	Eshunga Ilolhi	Near Threatened
9	Black-Winged Stilt	Himantopus himantopus	Theyravaa Ilolhi	
10	Bodu Gaadhooni	Sterna bergii	Great Crested Tern	
11	Bridled Tern	Sterna anaethetus	Vaali	
12	Brown Booby	Sula leucogaster	Kalhu Maadhooni	
13	Brown Noddy	Anous stolidus	Maaranga	
14	Caspian Tern	Sterna caspia	Miyaremu Dhooni	
15	Catlle Egret	Bubulcus ibis	Iruvaihudhu	
16	Central Maldivian Heron	Butorides striatus didii phillipsi	Medhuraajjethere Raabondhi	
17	Common Coot	Fulica atra	Salvaa Dhooni	
18	Common Greenshank	Tringa nebularia	Chon Chon Ilolhi	
19	Common Moorhen	Gallinula chloropus	Olhuvalu Kanbili/Kulhee Kanbili	
20	Common Ringed Plover	Charadrius hiaticula	Angoti Bondana	
21	Common Tern	Sterna hirundo	Valla	
22	Crab Plover	Dromas ardeola	Theyravaa/Moalha Lunbo	
23	Curlew Sandpiper	Calidris ferruginea	Bondana Ilolhi	Near Threatened
24	Eurasian Spoonbill	Platalea leucorodia	Dheyfaiy Dhooni	
25	Ferruginous Pochard	Aytha nyroca	Rathu Reyru	Near Threatened
26	Flesh-Footed Shearwater	Puffinus carneipes	Maa Hoagulhaa	
27	Garganey	Anas querquedula	Kunburu Reyru	
28	Glossy Ibis	Plegadis falcinellis	Kalhu Bulhithunbi	
29	Great Egret	Casmerodius albus	Lagnaa	
30	Great Frigatebird	Fregata minor	Maahoara	
31	Greater Flamingo	Phoenicopterus ruber	Gudugudaa Dhooni	
32	Greater Sand Plover	Charadrius leschenaultii	Valu Bondana	
33	Grey Plover	Pluvialis squatarola	Alaka	
34	Gull-Billed Tern	Gelochelidon nilotica	Kanifulhu Dhooni	
35	House Sparrow	Passer domesticus	Kurulla Dhooni	
36	Jack Snipe	Lymnocryptes minimus	Onna Ilolhi	

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

(-)	1111X/113/2000/111 (00 142/		
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-leged 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	AnatidaeDendrocygna bicolor	
	Duck		
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 ptilorhyncus	
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
  - o 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
  - o 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

0

- Family: Physeteridae
  - Genus: *Physeter* 
    - Sperm Whale *Physeter macrocephalus* VU
- Superfamily: Platanistoidea
  - Family: Kogiidae
    - Genus: Kogia
      - Pygmy Sperm Whale Kogia breviceps LR/lc
  - Family: Ziphidae
    - 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
- o Superfamily Ziphioidea
  - 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

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- Family: Physeteridae
  - Genus: Physeter
    - Sperm Whale Physeter macrocephalus VU
- o Superfamily: Platanistoidea
  - Family: Kogiidae
    - Genus: Kogia
      - Pygmy Sperm Whale Kogia breviceps LR/lc
  - Family: Ziphidae
    - 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 Ziphioidea
  - 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.						
$\mathbf{H} \mathbf{H} \mathbf{W} \mathbf{I}$		Known only to survive in captivity or as a naturalized populations well outside its previous range.					
	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		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	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		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	29НА02	HA.Atoll	Dhidhdhoo	Nika gas	More than 50 years	6.1	6.02	West of pre-school			
109	29НА03	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	4.05	6.02	In front of Kudage			
110	29НА04	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	3.16	4.7	West of storage room of Island Office			
111	29НА05	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	7.3	3.04	West of Windmaage			
112	29НА06	HA.Atoll	Dhidhdhoo	Nika Gas	More than 50 years	7	3.05	North of Iramaage			
				Haa Dhaal A	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 At	oll			
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 Ato	11			
84	17R01	Raa Atoll	Ungoofaaru	Kaani Gas	More than 55 years	0.9	16.15	In the park near the beach
85	29R01	Raa Atoll	Ungoofaaru	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	07Mle01	Male	Villingili	Dhigga Gas	More than 50 years	3.23	13.53	17the block of the recreation area			
2	09Mle01	Male	Villingili	Funa Gas	More than 50 years	2.25	25.29	17the block of the recreation area			
3	09Mle02	Male	Villingili	Funa Gas	More than 50 years	3.29	25.29	17the block of the recreation area			
4	09Mle03	Male	Villingili	Funa Gas	More than 50years	2.89	25.29	17the block of the recreation area			
5	09Mle04	Male	Villingili	Funa Gas	More than 50 years	2.49	25.59	17the block of the recreation area			
6	09Mle05	Male	Villingili	Funa Gas	More than 50 years	2.19	25.59	17the block of the recreation area			
7	09Mle06	Male	Villingili	Funa Gas	More than 50 years	2.8	25.59	17the block of the recreation area			
8	09Mle07	Male	Villingili	Funa Gas	More than 50 years	2	19.16	17the block of the recreation area			
9	09Mle08	Male	Villingili	Funa Gas	More than 50 years	1.9	19.16	17the block of the recreation area			
10	09Mle09	Male	Villingili	Funa Gas	More than 50years	3	25.2	17the block of the recreation area			
11	09Mle10	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 <sup>st</sup> Block
12	09Mle11	Male	Villingili	Funa Gas	More than 50years	2.3	28.65	Flat area, 30 <sup>th</sup> Block
13	09Mle12	Male	Villingili	Funa Gas	More than 50years	2.57	28.65	Flat area, 30 <sup>th</sup> Block
14	09Mle15	Male	Villingili	Funa Gas	More than 50years	3.1	28.6	Flat area, 30 <sup>th</sup> Block
15	09Mle16	Male	Villingili	Funa Gas	More than 50years	2.15	28.6	Flat area, 30 <sup>th</sup> Block
16	09Mle17	Male	Villingili	Funa Gas	More than 50years	2.1	28.6	Flat area, 30 <sup>th</sup> Block
17	09Mle18	Male	Villingili	Funa Gas	More than 50years	1.84	28.6	Flat area, 30 <sup>th</sup> Block
18	09Mle19	Male	Villingili	Funa Gas	More than 50years	2.42	28.6	Flat area, 30 <sup>th</sup> Block
19	09Mle20	Male	Villingili	Funa Gas	More than 50 years	2.3	28.6	Flat area, 30 <sup>th</sup> Block
20	09Mle21	Male	Villingili	Funa Gas	More than 50 years	2.27	28.6	Flat area, 30 <sup>th</sup> Block
21	09Mle22	Male	Villingili	Funa Gas	More than 50years	2.05	28.6	Flat area, 30 <sup>th</sup> Block
22	09Mle23	Male	Villingili	Funa Gas	More than 50 years	2.3	28.6	Flat area, 30 <sup>th</sup> Block
23	09Mle24	Male	Villingili	Funa Gas	More than 50years	2.57	28.6	Flat area, 30 <sup>th</sup> Block
24	09Mle25	Male	Villingili	Funa Gas	More than 50years	3.1	29.25	9 <sup>th</sup> Block
25	09Mle26	Male	Villingili	Funa Gas	More than 50years	3.15	28.65	9 <sup>th</sup> Block
26	09Mle27	Male	Villingili	Funa Gas	More than 50years	3.3	20.9	VIP area, 1 <sup>st</sup> block
27	09Mle28	Male	Villingili	Funa Gas	More than 50years	3.62	28.6	Flat area, 30 <sup>th</sup> 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 <sup>th</sup> 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 <sup>st</sup> Block
32	29Mle01	Male	Villingili	Nika Gas	More 150 years	12.49	28.95	Infront of Ward Office, 17 <sup>th</sup> Block
33	29Mle02	Male	Villingili	Nika Gas	More than 50 years	4.89	15.2	Recreational area, 17 <sup>th</sup> block
34	29Mle03	Male	Villingili	Nika Gas	More than 50 years	13.3	23.35	Infront of MNDF Coast Guard, 50 <sup>th</sup> block
35	29Mle04	Male	Villingili	Nika Gas	More than 50 years	6.92	24.9	In front of MNDF Coast Guard, 50 <sup>th</sup> block
36	29Mle05	Male	Villingili	Nika Gas	More than 50 years	12.32	28.85	On the grounds of Water Supply, 50 <sup>th</sup> 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 <sup>th</sup> Block of Environmental Office
				Vaavu A				
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 Ato	111						
38	29T09	Thaa	Guraidhoo	Nika Gas	More than 100 years	5.8	45.72	Kandaru Ward			
				Gaaf Ali							
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 buildng			
				Gaaf Dha	ıal						
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	Circumference of	Height of the	Location of the tree
					(estimated)	the tree (meters)	tree (meters)	
					60 years			
29	00GN29	Gn	Foammulah	Nika Gas	More than	9	21.00	Behind Manhajul
					54 years			Hudha
30	00GN30	Gn	Foammulah	Nika Gas	More than	13	39.00	Ground of Haafiz
					90 years			Ahmed School
				Seenu At	oll			
1	19S01	Seenu	Hithadhoo	Kinbi Gas	More than	6.4	30.48	Dhehera Fannu
					55 years			
2	19S02	Seenu	Hithadhoo	Kinbi Gas	More than	1.83	45.72	Dhehera Fannu
					50 years			
3	29S01	Seenu	Hithadhoo	Nika Gas	More than	5.5	22.86	East of Maamendhoo
					60 years			
4	36S01	Seenu	Hithadhoo	Hirudhu Gas	More than	6.37	36.6	Grounds of Media
					55 years			Centre

## (3) ステークホルダー会議 議事録及び出席者リスト

# 1) ディッドゥ

lss ues

133 063	rancipants opinion, comments and suggestions		
General perception about the project and the awareness about the proposed project.	<ul> <li>Council is aware of the project but the general public is not aware of the project at all.</li> </ul>		
What is the opinion of the community regarding the project in your Island?			
Support of the local people for the proposed project	Yes, Peaple will support the project		
Any critical issues or concerns, problems by the local people regarding the project?	Maintenance issue might be there		
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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?	No negative impact.  There might be lightning due to the tower from past experience  Health issue due to radiation  Some impact to the cabal TV operator		
In your opinion, are there any positive impacts or benefits associated with the project?	General public will be benefitted		
ls 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)	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?	There are construction companies who can do this job		
Loss of residential/commercial structures, if any due to the project	No If there is vibration during construction, then there may be some damage to the homes.		
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.		
ls the site prone to disæsters?	No		
ls this consultation useful? Comments?	Yes		

Participants' opinion, comments and suggestions

Name	Organization or Address	Designation
Hassanxareer	Real T SPC	President
nunaduali	Meal TSPC	Means or Ha Dindle
Ahmed Amjed	Brasiala sports club	Dresident
		Secretary
Dhilleen Lasheoc	Besisla Sports dub	chung mysist
Ibrahim Rashma	1 Dalha Tornge Roya Se	Vice presi
	,	Meinlow
	Devola Come 1	merber
John Shua	m Didhe canil	Prent
Thatin out	d Didhao Come	menbet
	Dhidhoo count	

## 2) クルドゥフシ

lss ues	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?	Council aware of the project. But island community is so far not aware
Support of the local people for the proposed project	We support and island community will support.
Any critical issues or concerns, problems by the local people regarding the project?	<ul> <li>If it is private party, there will be always change of increasing tariff.</li> </ul>
Are there any criteria you would like to see considered during the project design, construction and operation stage?	Cable TVs ervice is needed. Site is close to the shore. So maintenance will be high. Especially durings outh west monsoon season, sea spray is very high. Area is dose to shore, therefore shore protection is important. Want to see localized channels specially for this is land. 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
ls 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)	HD quality cable TV service should be available Internet service (WiFi) through this network. Island community and council will fully support this and if necessary other stakeholders will involve.
Will there be likely involvement of local people in the implementation of the project?	<ul> <li>There are lots of construction companies which can handle this project. If needed council will corporate with NGOs for their support.</li> </ul>
Loss of residential/commercial structures, if any due to the	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

project	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 Moharel	k. Connell   pn	president
Motioned Aimar	Hulhodhuffeelig	Vice Prosider
Amendh Majredho	U	Courcil Menbe
Ibrahim Rashed		Council Manbe
Mi Ibrahin	MWSC	security
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M.A. grefor	Kong Ashi	
Atalul Rasherd	H. Dr TRe Hawkey	Tenstour
Aboola lawr	Hirudha	

### 3) フナドゥ

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> <li>Very good objectives</li> <li>Its not good to construct antenna in living area</li> <li>Increasing no of antenna will consume lands and other areabetter to think to use common antenna</li> <li>Council need to know who look after the land even during the service-council welcome to take if paid</li> <li>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     </li> </ul>
Support of the local people for the proposed project	Yes, support will be there Stakeholder supportalso council Very good project if fulfilled
Any critical issues or concerns, problems by the local people regarding the project?	<ul> <li>Any work without a pay will be an issue</li> <li>Need prior info about when to send signals from antenna to houses</li> <li>Lightning to antenna is sometimes a fear for the locals</li> <li>No issues from locals</li> <li>Radiation run on the long run</li> <li>Good if better service</li> <li>If foreign channels-should be cautious on unrelated contents</li> <li>Some youths might stay there and do bad things</li> <li>Should construct tower away from local polulation</li> <li>Lightning may cause power failure in near by houses-it should be avoided</li> <li>Safety concern-hope work will be carried out after good study</li> </ul>
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul> <li>Channels should be available</li> <li>It is important to communicate through atoll council to island council</li> <li>If council can get facility to announce/channels to the locals</li> <li>Nearest pond can be reclaimed</li> <li>Location should be separated and fenced</li> <li>The area is in waste/garbage area-local houses are there</li> <li>CCTV should be there</li> <li>Even in future the land area should not be close to population</li> <li>Culture and religious channels should be incorporated</li> <li>Once implemented and depend on the service, price should not be increased.</li> </ul>
In your opinion, are there any negative impacts or losses	<ul> <li>Increasing signals from similar antennas may cause interference to other services</li> </ul>

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 anenna 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?	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 Organiza		tion	Designation
AHMED SERAHIMA	AHMED SERAHMA FUNAS		PRESIDENT
AHMED NAZEER		Tr.	munber
JIYAS HAAMIDH		1.1	U. PRESIDEN
ABDUNA PACHEED		(a)	number
IBRAHM RASHRED IJDRES	SH ATO	ou council	V. PRESIDEN
Mohamed Husham	Sh Fun	naethic atoll Hospital	In charge
Shithama Mohamed		usly and childr	ed A. Spesal
Name	UNH	DHOO Da Address	te: 30(06)
Mohamed &	dan	kethiros	e
Nohamed Ha		Rani	
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### 4) マナドゥ

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?	Beneficial project-well informed     Good project with minor concerns     No information     Little awareness
Support of the local people for the proposed project	Positively support, will support, beneficial
Any critical issues or concerns, problems by the local people regarding the project?	<ul> <li>High rise mast in a residential area</li> <li>Mast in a residential area</li> <li>Lightning risk</li> <li>radiation</li> <li>A mast catering for all the users is needed</li> </ul>
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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
In your opinion, are there any negative impacts or losses associated with the project?	No impact Radiation Damage due to disaster Falling objects from the tower
In your opinion, are there any positive impacts or benefits associated with the project?	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
Is there an alternative location for the site selection?	Eastern side near other mast Near Dhiraagu mast, near football field West side of proposed site
Any other issues you may feel like to share: (Whether they	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> <li>Sharing of same mast for all service providers</li> <li>Local parties are willing to carryout maintenance work</li> <li>High rise mast in residential area</li> </ul>
Will there be likely involvement of local people in the implementation of the project?	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

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Maryam !	Walasha	Hiri	
Shahidha	Abdul Gadar	Amaz	
Ainila Abd	ul Hateem	fasmee	814

### 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?	It's a good project     No idea (not heard)	
Support of the local people for the proposed project	Will support and others also will fully support	
Any critical issues or concerns, problems by the local people regarding the project?	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> <li>Internet through this network</li> <li>Localized advertisement</li> <li>Local people should be involved</li> <li>Should be well maintained</li> <li>No service disruption</li> </ul>	
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> <li>Quality service</li> <li>Job opportunity</li> <li>More channels</li> <li>Warning information dissemination</li> </ul>	
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?	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	Saimaage		
Hussain Zakariyya	Dhoadhi		
Hussain Ali	Maayaa		
Yousuf Shareef	Asareege		
Abdulla Hameed	Roazy villaage		
Ali Naeem	Minivan 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	f	1	
Ahmed Niyaz			

# 6) エイダフシ

lss ues	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?	Good project. We and people will support the project     Not aware of the project		
Support of the local people for the proposed project	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?	No concern		
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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 as sociated 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)	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?	Yes There are construction companies Hard to get labour		
Loss of residential/commercial structures, if any due to the	No		
project			
Loss of community life like any market places or community activities to be affected?	No		
Is the site prone to disæters?	No		
Is this consultation useful? Comments?	Yes		

Name	Organization or Address	Designation	
Hussai Sirnaj	Uthwage	Trai drive	
16 mehim Ahma	Amanz	Fisherman	
Abdul fasher	Gan'dhakoathing	ge Hospital	
Scroza 46 emilia	magoomarye.	Huse.	
Alshoth Rifge	Na rugis ville	Receptionelay	
Fazloen Kehamee	B. Afoll Education Co. J.	a Administration	
Hava Hamabec	B. Alen Education contre	student	
Haleema Ahmed	B Atos Hospital	nealth officer	
Ranya Rashadh	8 Atall Education centre	Student	
Suha Ahmed	B. Atoll E docation	student	
Fathimath Riften	3 Avel Education	stedent	
Miranaid Aboet Ibenhem	9 Aven Education review	Student	
nehawed liplical	8 Ianurahul wafa	ship people	
Uneshal Amuel	Cauncil	member	
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### 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> <li>Heard about the project. Sustainable project</li> <li>No information</li> <li>Little information</li> </ul>	
Support of the local people for the proposed project	Will support. Not support, will not support, support	
Any critical issues or concerns, problems by the local people regarding the project?	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?	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)	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?	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	

Name	Organiza	tion Date:	Designation
MOHAMED HUSSAN	MADIER	ASATIVUL	DP.
MUHAMED HUSSAIN		eu council	ASSI DIRECTOR
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Nosella Alekaned	Buddies	- Ned	03.0
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Акарати Миниме	FERNA:	EA NATFARH	STATIONS MANAGER
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Name		Ü	ate:
		Address	
Yousuf Za	kir	Amaan V	chi
Abdul Gani		Udha	
Ahmed Sha	recf	Rauni 1	
Ali Nigez		Vaiman	
Hugein Takeri	Sec.	Vilavet	7.9
Hanrid Abdulla		Halavel	
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Alach Razzoq			8
Mohamy Jaleel.		Ferrang	
Mohamad Al		Kopeege	
Mohand Sixonaz		Mervey	D.
Mohand Mahin		Aman	

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> <li>Some stakeholders are not aware of the project.</li> <li>Dhiraagu requested for coordinates of proposed locations.         We have no issues with the project (if there is a problem we can provide a solution).</li> <li>Some community members are aware of the project and said they will support the project.</li> </ul>	
Support of the local people for the proposed project	<ul> <li>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).</li> <li>Good project and we will support.</li> </ul>	
Any critical issues or concerns, problems by the local people regarding the project?	<ul> <li>No concern</li> <li>Dhiraagu plan to build a new tower</li> <li>People should not be allowed to access the site</li> <li>The tower might fall onto the houses are nearby</li> <li>Might be impacted due to high sea waves</li> <li>The project should be carried out away from residential area</li> </ul>	
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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? Is there an alternative location for the site selection?	For awareness, the network can be used.  • Service quality will improve  • Disaster information will reach people  Some said this is the best location while others said all the towers should be around the same area. The proposed location is very	
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> <li>Close to STELCO transformer.</li> <li>Why extra towers will be constructed? While there are Dhiraagu and Ooredhoo towers</li> <li>Now we face problem with the service and we expect this will improve the service</li> <li>No there is monopoly</li> <li>We would like to know which vehicles will be used, no of people-Can allocate land from Gulhifalhu for labour</li> </ul>	

	<ul> <li>Condition of the site might improve with the project (e.g. flooding condition will improve)</li> <li>Service quality will improve</li> <li>Disaster information</li> </ul>
Will there be likely involvement of local people in the implementation of the project?	<ul> <li>Some construction companies might be involved.</li> <li>To some extent community will be involved</li> <li>It will be good if the island people carry out the construction work.</li> </ul>
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	Organization	Designation
Abotella Shows	мн	Ex Condude
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Nazima Ali Manut		genty friends
IHRAHIM ICHAL		ADMIN SUPERVIS
ALI RISHWAN	STELLO	SUPERUS
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Adam Lathe	1	neaunger

Name	Address
Ali Walterd	VAZaa
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Moose Mohamed	V. Bahanra
Hanna Ati	v. Hulhevi
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Shareel Abolul 8	amad - Itanihaara
Hawwa Yeonuf	V. Ulhafaru
Athers Moliana	
Ibrahian mohang	V. Nassemethiga
Adam Naceun	

Issues	Participants' opinion, comments and suggestions	
General perception about the project and the awareness about the proposed project. What is the opinion of the	Survey carried outno detailed information     Miscommunication     Limited information     Beneficial project	

community regarding the project in your Island?	
Support of the local people for the proposed project	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> <li>Falling debris , population scattered</li> <li>Past experience was not favorable</li> <li>No concern</li> <li>Loss of land space</li> </ul>
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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?	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?	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)	Land is scarescurrently 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	Will involveisland 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	

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Name	Organ	ization	Designation
Ahmod Ab. S	affas Manfa	ashi Power House	office As
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## 10) フェリドゥ

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?  Support of the local people for	Good project. Heard about the project Not heard about the project Good project  PSM had provided limited information We have sent a letter to PSM  Council: People may not support the project since there are	
the proposed project	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	
Any critical issues or concerns, problems by the local people regarding the project?	<ul> <li>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</li> <li>Support the project</li> <li>From the existing towers objects falling-So from the project also same might happen</li> <li>Radiation</li> <li>Disruption of the service</li> <li>Currently also the area is not maintained</li> <li>Mosquitoes are breeding at the area</li> </ul>	
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul> <li>Fence should be there</li> <li>Lighting should be there</li> <li>Area should be well looked after (cleaning and maintenance)</li> <li>Price should be lower than now</li> <li>Service should be quality</li> <li>Free channels should be there</li> <li>Educational, religious channels should be there</li> <li>Beach protection measure should be there</li> <li>Land rent should be paid</li> <li>First priority should be given to safety</li> <li>During dewatering, water should not be released to the sea</li> <li>The tower should be built away from houses (middle of the land allocated)</li> <li>Island vegetation should not be impacted</li> </ul>	
In your opinion, are there any negative impacts or losses associated with the project?	Might fall objects and damage properties and might harm people     Radiation impact	

	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?  Is there an alternative location for the site selection?	<ul> <li>Might provide job opportunities</li> <li>Quality service</li> <li>Delivery of information during emergency</li> <li>Price might be low</li> <li>New channels might be available</li> <li>Food and accommodation for workers</li> <li>Close to houses-might impact</li> </ul>
for the site selection:	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> <li>Close to beach-beach is eroding</li> <li>Would like to see the project starting as early as possible</li> <li>Full support if the service is provided sustainable</li> <li>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</li> <li>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</li> </ul>
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?	Good, good

Name	Organization	Designation
Abdul Hajad	V 4 tell Council	D. Pirector
Secret Hyahim	V felichies police	p seargest
Marthan Reserved	V Felillan (2 st	Alienia office
All Mashad	VI-Folkhoo Stelco	THICK ASSIGN
Moranied Lather	F 三位位	95
All Falty	Vanvy Atoll Hospital	Community Hayland
Hassan Ali	V Felidhor Council	Cours Provide
Americal Robins	V FESE	more office
Ismail Somer	U Kelidha Camed	A Divertear

COLLEGE CONTRACTORS.	N. 37 Shift
Name	Address
Almord Ismail	Sosun Ville
Ibraham Ismail	Sogun Willa
Ibrohim Hissas	Carnation willy
Ali Hacem	Haully vareage
Massa Aci	Dilkash Villa
strana Albahanee	Queen s
Mariyam Ibrahin	Bureauc
Abdula Ati	Pluk Flower
Abdul Rafor	Keneree Will
Hasa Qasim	Kenevee Villa
Nafigfa	Sosun Villa
Shirkana	Starlight
Vistema	Luctogstar

### 11) ダンゲティ

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?	Heard about the project. Good project Aware of the project Not heard Good project		
Support of the local people for the proposed project	Full support     We support and community also will support		
Any critical issues or concerns, problems by the local people regarding the project?	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		
Are there any criteria you would like to see considered during the project design, construction and operation stage?	<ul> <li>Fence should be there</li> <li>Sign board</li> <li>All the basic channels should be free</li> <li>Sports channels should be there</li> <li>There should a rent for the land area</li> <li>The area should be looked after (through a part y or a staff)</li> <li>Price should be same</li> <li>Educational, Religious, health.</li> <li>Free channels should be there</li> </ul>		
In your opinion, are there any negative impacts or losses associated with the project?	Radiation impact     Will limit availability of land for other purpose     If outsiders are given employment		
In your opinion, are there any positive impacts or benefits associated with the project?	Might reduce price (fee)     May provide job opportunities     Emergency information delivery     Service will improve (now very poor service)		
Is there an alternative location for the site selection?	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.  Current allocated land area is best location.		
s	Current allocated land area is best location. One suggested reclaimed area. With the tower, aesthetic value		

	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)	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?	Very good-got information

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### 12) フィアリ

lss ues	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?	There projects will be agood project to cure citizen. Because through this project island people can get many information.	
Support of the local people for the proposed project	There will be high support from the local people	
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?	• no	
In your opinion, are there any negative impacts or losses associated with the project?	• no	
In your opinion, are there any positive impacts or benefits associated with the project?	Yes, islands can get job during construction period	
ls 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)	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	Yes, Those who are doing same kind of business will be affected.	
market places or community activities to be affected?		
Anything would you like to add?	•	
ls this cors ultation useful? Comments?	• yes	

Name	Organization or Address	Designation
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Ali Aswe		officer
Sanidha	Haym Reymortha	Admin
Michamal Re		supervisor
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### 13) ニランドゥ

lss ues	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 awareto 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 find hing 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 this issues also 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 PS M and our communities will arise. Indirectly local business as 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 disæsters?	Rarely
ls this consultation useful? Comments?	Yes

Name	Organization or Address	Designation
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Ah Hussa		local
Abdul Maj		association
Morning M.		youth

# 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?	No aware of the project     Need more info
Support of the local people for the proposed project	Yes, full support. Community also will support
Any critical issues or concerns, problems by the local people regarding the project?	No critical issues
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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?	No negative impact Might be expensive
In your opinion, are there any positive impacts or benefits associated with the project?	Fees might be lower for the channels Digital service to all Emergency information/announcement
ls 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)	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?	• 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 Shigam	Gan connail	President
Abdulle aboliz	Gan council	v ProsiDent
Aslam Mohames	9	et energy
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#### 15) グライドゥ

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?	No previous information But few are aware of the tower Community will support  Known Good project Good project is better signal and cheap price
Support of the local people for the proposed project	<ul> <li>Full support</li> <li>Usually it gets delayedgood if the project not delayed</li> <li>Good-public service project</li> <li>If it's through government, it is ok</li> </ul>
Any critical issues or concerns, problems by the local people regarding the project?	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
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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
In your opinion, are there any negative impacts or losses associated with the project?	No     Might fall and create a disaster     There might be lightning (happened about 40 years ago on to 14 coconut trees)
In your opinion, are there any positive impacts or benefits associated with the project?	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
Is there an alternative location for the site selection?	Some suggested new reclaimed area     Prefer existing location     Best land (no better location)
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local	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?	Yes, very good	

Organization	Designation
Couraidhoo	al President
HEALTHCENTRE	5 ADMINISTERS
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## 16) ビリンギリ

lss ues	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> <li>Some people indicated that previously they have not heard about the project (Not shared with public by the council).</li> <li>But others heard from the local TV about the project and aware of the project site in the sland.</li> <li>Very much looking forward to the project</li> </ul>
Support of the local people for the proposed project	<ul> <li>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.</li> <li>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).</li> </ul>
Any critical bases or concerna, problems by the local people regarding the project?	<ul> <li>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.</li> <li>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)</li> </ul>
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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 hould be constructed Price of theservices hould remain same Advertising apportunities should be given to local and regional businesses (even for a charge (island). Construction should be done by closing the area to avoid accidents
In your opinion, are there any negative impacts or losses associated with the project?	<ul> <li>Might impact current service providers business. Because of the project, current service provider business should not be impacted.</li> <li>.</li> </ul>
In your opinion, are there any positive impacts or benefits associated with the project?	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 betterservice)
Is there an alternative location for the site selection?	No other location suggested and noted that the proposed site is the best location (away from residential area) No othersite is available for such a tall tower Suggested that the soil is also good in the proposed area
Any other issues you may feel like to share: (Whether they	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?	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?	Currently the service is very weakHow the service will be in the future? We indicated that theservice will be better.
ls this cors ultation useful? Comments?	Very happy to have the meeting     We got extra information

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## 17) ガッドゥ

lss ues	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?	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.	
Support of the local people for the proposed project	Over all the community will support the project. If it is development project.	
Any critical issues or concerns, problems by the local people regarding the project?	Concerns:  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.	
Are there any criteria you would like to see considered during the project design, construction and operation stage?	Project site (land) should leased for rent (and council should get the fee)     Safety and security should be considered.	
In your opinion, are there any negative impacts or losses associated with the project?	No major impact due to the project.     Limits the availability of land for other purpose (no land for waste management, powerhouse, housing etc)	
In your opinion, are there any positive impacts or benefits associated with the project?	Local job opportunities might be created.	
Is there an alternative location for the site selection?	Proposed location is the ideal 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)	New technology is needed.     All the services should be made available through the network (TV, telephone, net etc)	
Will there be likely involvement of local people in the implementation of the project?	Local contractors 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?	With this project government can control all media
Is the site prone to disasters?	
ls this consultation useful? Comments?	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).

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## 18) フィヨアリ

lss ues	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?	There is an antenna but no services o people question about it.  Support is there (we support this project).  Yes, we heard about the project (previously also survey was done).	
Support of the local people for the proposed project	Fully support. Because some channels are not available     We are waiting for the servicewe will provide our full support.	
Any critical bases or concerna, problems by the local people regarding the project?	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?)	
Are there any criteria you would like to see considered during the project design, construction and operation stage?	Children educational channels should be there More channels should be available Services hould be sustainable Services hould be cheap Some contents should not be allowed Sports channels should be there for youth. Signal should not be interrupted	
In your opinion, are there any negative impacts or losses associated with the project?	If the project delays then it is a problem Waste should be handled properly	
In your opinion, are there any positive impacts or benefits associated with the project?	Channels are needed for the island	
ls there an alternative location for the site selection?	Since existing antenna is also available and enoughs pace is also availablethis is the best location  Best location  Location is one of the highest areawater table will be high	
Any other issues you may feel like to share: (Whether they welcome the project, will there be cooperation from the local community during the	Locals should be informed about the charges and why the amount is charged?     Publics hould be informed about channels that they will be getting     If the project delays it will be a problem (concern)	

implementation, security measures, etc)	<ul> <li>We would like to see this project implemented as early as possible.</li> </ul>
Will there be likely involvement of local people in the implementation of the project?	Island community will be involved (exemplary is land)     For monitoring local 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?	
ls 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.

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## 19) ティナドゥ

lss ues	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?  Proposed site in out allocated and approved by the Proposed site in cation is given to road construction contractor for one year  There's hould be proper communication with the have not received any written communication)  Council would like to know PSM thinking regarding current land area (and the PSM buildings)  Mosquito's in PSM office area	
Support of the local people for the proposed project	We welcome the project
Any critical issues or concerns, problems by the local people regarding the project?	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?
Are there any criteria you would like to see considered during the project design, construction and operation stage?	Should provide quality service Should be same or lower price Competitions hould 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
In your opinion, are there any negative impacts or losses associated with the project?	No negative impacts. Might create aviation hazard Government might control the media (might block the channels)
In your opinion, are there any positive impacts or benefits associated with the project?	Good coverage Quality will be maintained Business will increate Customer problems also will be attended quickly or minimized Jobs will be created
Is there an alternative location for the site selection?	PSM land area Maintenance might be high due to proximity to sea

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)	If the project is implemented within the time frame will be good How long it will take to implement the project? Why the current PSMs ite is not used? Content should be controlled for children	
Will there be likely invalvement of local people in the implementation of the project?	<ul> <li>Jobs should be given and is land companies should be involved.</li> <li>Most of the previous projects are implemented through council, so there will be local involvement.</li> </ul>	
Loss of residential/commercial structures, if any due to the project	пп	
Loss of community life like any market places or community activities to be affected?	по	
Is the site prone to disasters?	Waves	
ls this consultation useful? Comments?	Yes, good information	

Name	Organization or Address	Designation
Ati Dished	Mitresta	KDDA
Junine Might of	Strongholm	-
Hasy olha Gasim	Scleena	-
ADOUL AZEEZ RUFAY	MALDIVES ISLAMIC	MANAGER
HIMEDINUTTESIM	DHIKAGU	SEMILE TECH-
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Gusigge Abbilla	Thinadh council	consider

# 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?	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?	No issue
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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? Is there an alternative location for the site selection?	More information Better quality of service Warning dissemination 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)	Local public will welcome this project.  No security threat  People are in need of it
Will there be likely involvement of local people in the implementation of the project?	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
activities to be affected?	

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 Concil	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		

## 21) ヒタドゥ

lss ues	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?	Project is good and important for the island     Not heard about the project
Support of the local people for the proposed project	Community will support the project
Any critical issues or concerns, problems by the local people regarding the project?	Project might not be implemented (since some projects are not implemented) Right now good's ervice not available Other islands in the city are paying less right now During construction workers's afety should be considered
Are there any criteria you would like to see considered during the project design, construction and operation stage?	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 hould be the service provider
In your opinion, are there any negative impacts or losses associated with the project?	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?	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
ls 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)	Will there be more channels? Will there be charges? Customers a hould be notified before disconnecting the service There a hould be possibility of a electing channels
Will there be likely involvement of local people in the implementation of the project?	There are many companies who can do the construction work. So they might be involved.

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:	CASSES AND THE
	Organization or Address	Designation
Maraned Forta	in H. P. Hospital	Mailroile
Shana Naseur	Island TV	( S Macisteri
naora nieveru	Sama Hill	-
Shiba molenued	Shi kangaran kidi	Teacher
Sichus hassan	kangaroro kids	Teacher
At Strong Hose	wintshipoen	2
Moorutah Homsod	Assucedia	-
Masones Talcel	Byshamage.	-
Allhoof Rolleg	Sunflower	-
Ali Shumeel	Fynnage	-
Hussan Ibalii	Durabuga	
FRAIL DENNY	Волиническа	14.1
TOLHAIM	VANNEZNAGE	
Anereu	Онекогогинальна	-
Haurza	MANDHOOBGE	
Abdulla Scient	white Rose	
Noonlkudha.	Adina /5+4	Durse.

添付資料

資料-7 自然条件調査

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20.00																				<u></u>			<u>_</u>	
SPT	When	re full	0.3m	penetration	n has not be	en achie	eved		Sample Key turbed Sample			N - Natur	ral Mois	ture Cor	ntent	C - Con	solidat	on		Rema	<u>arks</u>	Logged	By:	
	the	numb	er of b	lows for th	he quoted p			SS -SPT	Sample			L - Atter	berg Lii	nit Test		UCT-U	nconfir	ed Compress		Exis	ting	$ldsymbol{ld}}}}}}$	Lahiru	
GWI.	_			value)	rved inside	the			ter Sample rey Sample			G - Grain SG -Speci						ated Undraine dated Undrain	ned §	ground	d leve	1	ised By	
J.,,L				the saturat		an			disturbed San	nple		B - Bulk	Density			pH - Ch	nemical			consid			Lahiru	1
NE HB			ntered Bound	ne.					e Sample e Recovery	(%)		V - Vane	Shear T	est		O - Org				as the		Drilled	By:	
нв FD		mmer ee Do		.c				RQD-Ro	ock Quality I		on (%)					SO <sub>4</sub> - S		e Content ontent		,		1	Danush	ka
燚	Ma	ide C	Groun	ıd	xxxxx	Silt			Gravel				Lateri	te No	dules	<i>[-</i> -\\-		ompletely	Weath	ered F	łock		1	
	Cla	ıy				San	d	***	-	Matte	,		Silty S	and			Hi	ghly Weat	hered R	ock		Fre	esh R	ock

$\overline{\mathbf{v}}$	•	녈	F	Inte	LS	& onal	AMI private li	IN mited	52	2, Boduth	akuı	rufaa	nu M	lagu.	bile Hotlin , Maafannu , Web: ww	ı, Male'	20-0	01, M	
Pro	jeo	et			_			ey and soil invest ial television netv	0	-	•			ey o	Borehol	le No		ВН-	01
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Loca			, 1				ıdhufushi			Vhe Core D			54m		Grou	nd Wate	r lev	el	0.60 m
Date Date				d	22.01 22.01			Drilling Method Casing Diameter		Casing Elevati			15.0	Um	Coord	inates	<u> </u>		
	01	1.111	ISHC	u .	Ī	1.201	<u> </u>	Cashig Diameter	10011111	Licvati	<u> </u>		<u>i —                                     </u>		M	Ioisture C	onten	t - %	-
Depth (m)	pu		96	p	Depth (m)	-		G 11 D .			F		Recor	ds		ined Shear			m <sup>2</sup>
pth	Sa. Cond	Sa.NO.	Sa.Type	Reduced	pth	Legend		Soil Descrip	otion			(S	PT)		10 20 30			70 8	30 <del>0 900</del>
	$\mathbf{S}\mathbf{a}$	Sa.	Sa	Rec	De	Le					.5cm	.5cm	.5cm	Z		Resistan			
0.00								Ground lev	el		15	15	15		5 10 15	5 20 2:	5 30	35	40 45
	IX	D1	DS		0.00	0	Gravish	white fine to med	ium sub a	angular to						$\rightarrow$	$\perp$		
_	$\vdash$			\ \			-	ounded CORAL S		_						$\rightarrow$	_		
			WS	_		0		fragment								$\perp$	$\perp$		
1.00						1 : ()		8									$\perp$		
	X	D2	SS	G.W.L	1.00		Loosa	grayish white med	lium to o	ooreo eu <b>b</b>	2	2	6	8			$\perp$		
L	$\triangle$			at		0		to sub rounded CO							l ^				
			WS	0.60 m		()	angulai	coral rock frag		TIND WILLI									
2.00								corai fock frag	gineins										
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	$\triangle$					- : :():											23		
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3.00						0											$\mathcal{A}$		
_	abla	D4	SS			- 1		n dense grayish wh			13	23	11	34			$\neg \land$		
	Λ					V	sub ang	ular to sub rounde		L SAND						$\neg$		34	
_						٨		with sea shell fr	agments							$\rightarrow$	$\times$		
4.00			ws			٧٠.											/	+	
4.00			ws			V											+	_	
						.0										$\mathcal{A}$	+	_	
_		D.				-U					١.		١.			$\leftarrow$	+	_	
	IX	D5	SS		4.50	0					4	6	5	11	<b>4</b> 1		+	+	
5.00	$\vdash$						Dense	yellowish white f	ine to co	arse sub							+	-	
						10.0		to sub rounded CO								$\rightarrow$	+	-	
L			WS			0		coral rock frag								+	+	-	$\vdash$
								•	_							$\rightarrow$	+	-	
6.00	L,					0					ļ					$\rightarrow$	+	-	
	X	D6	SS		6.00	()	Madina	u damaa amariish yy	hita fina	to occurs	3	2	5	7		$\rightarrow$	+	_	
_	$\sim$							n dense grayish w ular to sub rounde							T 7	$\rightarrow$	+		
						0	_	ith coral rock frag								$\rightarrow$	+		
7.00			ws			· : : ():		n:Water loss was o								$\rightarrow$			
						V	7.50)11	that dept		octween						$\rightarrow$	_		
						1		tilat dept	11							$\rightarrow$	$\perp$		
	$\nabla$	D7	SS		7.50	Λ.	Wash Sa	mple:			6	6	5	11		$\perp$	_		
8.00	raket					V	0.00								11	$\perp$	_		
Γ								ite fine to coarse s					1		$\Box$	$\perp$		$\perp$	
			ws			0		ed CORAL SAND								$\perp$			
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9.00							'	observed between	that dept	th						$\perp$			
-	7	D8	SS		9.00	0	Medium	dense grayish wh	nite fine to	o medium	6	7	12	19		$\perp$			
	Х				7.00	- : ()		ular to sub rounde								<b>1</b> 9			
-			ws					coral rock fragmen											
10.00			5			0		fragment											
10.00		_		· · · · ·	I	٧	<u> </u>	11 11 11 11 11								Remar	rks	Logged B	ly:
SPT				penetration				D - Disturbed Sample	N	- Natural Moist				ısolidati					
				olows for ti	he quoted	penetrati	on	SS -SPT Sample W - Water Sample	L	- Atterberg Lin					ed Compression	Exist	_		Lahiru
GWL			not N- Vater l	-value) Level obse	rved insid	le the		W - Water Sample WS-Wgrey Sample		<ul> <li>Grain Size An</li> <li>G -Specific Grav</li> </ul>		t			ted Undrained lated Undrained	ground		Supervise	и Бу.
	Во	rehole	, after	the saturat				UD- Undisturbed Sample	В	- Bulk Density			pH - Cl	nemical		as the			ahiru
NE HB			ntered Bound	ne .				CS- Core Sample Cr - Core Recovery (%)	v	- Vane Shear T	est			ganic cor	tent Content	as the s		Drilled B	<u>y:</u>
FD		mmer ee Do		J.C				RQD-Rock Quality Designa	ntion (%)					Sulphate oride Co				Dε	anushka
$\times\!\!\times\!\!\times$	Ma	ide C	rour	nd	xxxxx	Silt		တ္တိုင္တဲ့ Gravel		△△△ Laterit	te No	dules	<u> </u>	$\overline{}$	ompletely Wea	athered Re	ock	$\sim$	
	Cla	ıy				San	d	Organic Mat	ter ×	Silty S	and			_	ghly Weathered			Fres	h Rock

	•	喜	j	In			AMIN private limited	52, Em	Boduth ail: info	akuı @el	rufaa sami	nu M n.cor	lagu n.mv	, M; v, W	Hotline aafannu eb: ww	, Mal	e' 20	-01, N		ives
Pro	jec	t					ohic survey and soil investig terrestrial television netwo						ey o	n	Borehol	e No		BF	I-01	
							iyo Engineering Co.Ltd								Sheet		2		of	2
Loc								rack Who				54m			Groui	ıd Wa	ter le	evel	0.6	0 m
Date Date				1	22.01		<u> </u>		Casing Elevati			15.0	0m		Coord	inates	<u> </u>			
	01	LIII.	snec	1	22.01	.2010	Casing Diameter 10	OOHIII	Elevan			<u> </u>			M	oisture	Conte	nt - %		
Depth (m)	pu		e e	Ъ	Depth (m)	-	0.12			F	ield F		ds			ned She			t/m <sup>2</sup>	_
pth	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	pth	Legend	Soil Description	on			(SI	<b>7</b> T)		10		40			80	90●
<u>Ŏ</u>	Sa	Sa	Sa	Re lev	Ď	Ľ	Continue form De-	1		5cm	.5cm	.5cm	Z			Resista				
-0.00						· · · :():	Continue from Pag	ge i		1:	- 11	- 22		_	5 10 15	20	25	30 35	40	45
							Same as previo	ous						$\vdash$		-			+	+
						0					l .		l	<u> </u>		+			+	$\vdash$
1.0-					10.60	0.0	Offwhite prous highly we	atherd hi	ghly							-			+	+
1.00						00	fractured CORAL ROCK ;L							$\vdash$		-	+	$\vdash$	+	+
			CS				core was recovered as off	f white fir	ne to	Cr=	=30%	RQD:	=28%			_	+		+	$\vdash$
						0,0	medium coral sand and coar	rse coral	gravels					_		_			+	-
						0	and pebbles							_		_	-		+	$\vdash$
2.00						0								_		+	-		+	-
					12.10	00								-		+	-		+	-
						0	Offwhite porous highly w									+	-		+	-
			CS			$\mathbb{V}_{0}$	fractured CORAL ROCK;L	-		Cr=	=23%	RQD:	=21%	_					+	-
3.00						00	core was recovered as off		ne to								-		+	-
						0	medium coral sa	and				l		_					+	-
						00								_					+	-
					13.60	1 O								_			-		+	-
1.00						0	Offwhite porous highly we	eatherd h	iohly					_					+	-
						ρo	fractured CORAL ROCK ;L										-		+	-
			CS			00	core was recovered as off	-		Cr=	=26%	RQD:	=25%	_					+	-
						$V_0$	medium coral s							_		_			+	-
5.00						$0^{\circ}$								_					+	-
					15.10	ľ								<u> </u>					+	-
					13.10		END OF THE BORE HOL	LE AT 15	5.10m							$\perp$	-		+	-
							DEPTH									$\perp$	-		_	_
6.00																$\perp$			_	_
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7.00														<u> </u>					$\perp$	1
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20.00										l				L					$\perp$	

20.00																
							Sample Key / Test Key							Remarks	Logged By:	
SPT	Where fu	ıll 0.3m p	penetration	n has not b	een achi	eved	D - Disturbed Sample	N - Natural Moist	ture Con	itent	C - Consolida	tion				
	the nur	nber of b	lows for th	he quoted p	penetrati	on	SS -SPT Sample	L - Atterberg Lin	nit Test		UCT-Unconfi	ned Compre		Existing	Lahiru	
	is give	n (not N-	value)				W - Water Sample	G - Grain Size Ar	nalysis		CU - Consolio	lated Undra	ined	ground level	Supervised By:	
GWL	: Ground	i Water I	Level obse	rved inside	e the		WS-Wgrey Sample	SG -Specific Grav	ity Test		UU-Unconsol	idated Undr	rained	considered		
	Boreho	le, after	the saturat	ion			UD- Undisturbed Sample	B - Bulk Density			pH - Chemica	l			Lahiru	
NE	Not Enco	ountered					CS- Core Sample	V - Vane Shear T	est		O - Organic co	ontent			Drilled By:	
HB	-Hamm	er Bound	e				Cr - Core Recovery (%)				SO <sub>4</sub> <sup>2</sup> - Sulpha	te Content		level		
FD	- Free D	own					RQD-Rock Quality Designation (%)				Cl - Cloride C	ontent			Danushka	i
$\rangle\rangle\rangle\rangle$	Made	Groun	ıd	×××××	Silt		တ္စ္တို႔ Gravel	ΔΔΔΔ Laterit	te Nod	lules		Complete	ely Wea	thered Rock	$\sim$	
	Clay				San	d	Organic Matter	x x Silty S	and		H	ghly We	athered	Rock	Fresh Roc	ck

	<b>5</b>	Ē	3	Inte			AM private li	IN mited			52, Bodut	haku	rufaa	anu N	ſagu,	oile Hotline Maafannu Web: www	, Male' 2	0-01,	Mal .mv	ldives.
Pro	jec	et							l soil inves evision net	tigation	for the p	repar	atory	y surv					H-0	
									g Co.Ltd							Sheet		1	of	2
Loca			ut a d				ıdhufushi		ng Method		heel Core Casin			54m		Grour	nd Water	level	0.	.60 m
Date				d	22.01 22.01				g Diameter					13.0	OIII	Coord	inates			
		Ī		Ï	Ī		<u></u>	Cusin	g Diameter	11001111	2.0 / 0.	T `		Recor	do	M	oisture Con	tent - %	, _	
m) (	puo		/pe	pa	m) (	pu		9	Soil Descri	ntion		1		PT)	us		ned Shear S			
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend				r		_				10 20 30 SPT	40 50 Resistance	60 70		<del>- 900</del>
0.00	S	S	S	M N					Ground lev	vel		15cm	15cm	15cm	z	5 10 15		30 35		45
	X	D1	DS WS	<b>+</b>	0.00	0			to medium			b								
1.00			WS	G.W.L		V .			fragmen	its									+	+
1.00	7	D2	SS	at	1.00	₩.						7	6	8	14				+	+
2.00	X	102	ws	0.60 m	1.00	0		to sub	off white rounded Co ral rock fra	ORAL S		b			14	•	14			
_	$\nabla$	D3	SS			0						6	8	22	30				$\top$	
2.00			ws			0			Grain size									30		
3.00	7	D4	SS		3.00	· · · · · ·						9	18	15	33			+	+	+
4.00	X		ws		3.00	0.0			te fine to co	ND with		o	10					3	3	
<b>-</b> 5.00	X	D5	SS			0			fragmen			4	14	12	26			26		
-			ws			0			Grain size and sea shell present	fragme		0								
6.00	X	D6	SS		6.00	0						7	5	6	11	11				
<u>7</u> .00			ws			0														
8.00	X	D7				0		to sub	e off white rounded Co ral rock fra	ORAL S			10	20	30			30		
<u>9</u> .00	$\bigvee$	D8	ws ss			0						10	9	9	18		18			
L	$\swarrow$	4				(											$\rightarrow$	++	_	-
10.00			WS			0											Remarks	II ogg	ed By :	
SPT				penetratio					irbed Sample		N - Natural Mo				nsolidatio					
	is g	given (	not N-	olows for ti value)	-	-	on		er Sample		L - Atterberg I G - Grain Size	Analysis		CU - C	onsolidat	d Compression ed Undrained	Existing ground le	Suma	Lah rvised l	
GWL				Level obse the saturat		e the		_	ey Sample isturbed Sample		SG -Specific Gr B - Bulk Densi		t		consolida nemical	ated Undrained	considere		Lah	nien
NE		rehole Encou		uie saturat	1011			CS- Core			V - Vane Shear			1	nemicai ganic cont	ent	as the ze	ro <u>Drille</u>	Lan ed By:	
HB			Bound	ce					Recovery (%)	t (er:				SO <sub>4</sub> <sup>2</sup> -	Sulphate	Content	level		D-	achle-
fd 888	_	ee Do	<sub>wn</sub> Grour	nd	×××××	Silt		RQD-Roo	Gravel	nation (%)	ΔΔΔΔ ΔΔΔΔ Late:	rite No	dules	CI - CI	oride Con	ompletely Wea	thered Post		Danu	ѕпка
	Cla		- Jul	-	× ×	San	d	* * * *	Organic Ma	tter	× × Silty		auics		=	hly Weathered			resh	Rock
		-										-		$\rightarrow$	۔ ب	•				

Pro	jec	t		Int		grap		ey and soil invial television n	estigation fo	r the pre	epar	atory	surv		n		w.elsai le No		вн	
								neering Co.Lt		ct in the	· KC	publi	C OI		S	neet		2	0	f 2
Loca					HDH.	Kulu	dhufushi	Rig	Track Whee				54m				nd Wat	er le	vel	0.60 n
Date Date				1	22.01 22.01			Drilling Method Casing Diame		Casing Elevati			15.0	0m		Coord	linates	<u> </u>	_	
		1 111	ishe	1	Ī	.2010	,	Casing Diame	ter i roommi	Lievati			i <u> </u>	do		N	Ioisture (	Conter	nt - %	
h (m	ond	٠.	ype	pec	Depth (m)	pu		Soil Des	cription		Г		PT)	us	10	Undra 20 30	ined She			/m²
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Dept	Legend			•		Е			Ι.	10		40 ± Γ Resistar	50 60 nce - I		t .
0.00								Continue fro	om Page 1		15cm	15cm	15cm	Z	5	10 1:	5 20	25 30	35	40 45
						0		Same as p	orevious		38/					_		Н	`	
					10.50	0					HB	L		>50		-				>50
1.00					10.30	$\int_{0}^{\infty}$										+		$\vdash$		
1.00			Off white porous highly wea fractured CORAL ROCK; C recovered as coarse irregular								+									
			CS			0						=13%	RQD	=0%						
			cs    Cs	eguiai shaped	graveis															
2.00		Off white porous highly weathered highly fractured CORAL ROCK; Coral rock was recovered as coarse irregular shaped gravels  Offwhite porous highly weathered highly fractured CORAL ROCK; Latter part of the coral rock was recovered as coarse irregular shaped gravels and pebbles  Off white porous highly weathered highly fractured CORAL ROCK; Coral rock was recovered as coarse irregular shaped gravels or recovered as coarse irregular shaped gravels			ĺ					Ш										
					12.00	0									-	_				
,						n 0										+		$\vdash$		
3.00			fractured CORAL ROCK; La coral rock was recovered as a shaped gravels and p	-		Cr=	=40%	RQD	=0%		+									
5.00		cs    0   fractured CORAL coral rock was reshaped g			ii egaiai								$\Box$							
						0			•											
					13.50	00							1					Ш		
4.00					13.30	V -														
						0,					Cr=	=16%	RQD	=0%		-		$\square$		
			CS			$\int_{0}^{\infty}$	recovere	ed as coarse irr and pe		gravels						+		$\Box$		
5.00						00		and pe	ooles				ĺ			+				
3.00					15.00		END C	OF THE BORE	HOLE AT 1	5.00m										
								DEP												
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9.00																				
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0.00					1						l	I								

20.00								s	ample Key / Test Key												Remark	s	Logge	ed By		
SPT GWL NE HB FD	Where full 0.3m penetration has not been achieved the number of blows for the quoted penetration is given (not N-value)						SS -SI W - V WS-W UD- U CS- C Cr - C	Vate Vare Vare Indi ore	bed Sample ample r Sample y Sample sturbed Sample Sample Recovery (%) k Quality Designation (%)	L - A G - C SG -S B - B	Atterbe Grain S Specific Bulk De	Moisture erg Limit ? fize Analy c Gravity ensity hear Test	Test sis		C - Co  UCT-U  CU - C  UU-U  pH - C  O - Or  SO <sub>4</sub> <sup>2</sup> - C  CI - C	Jnconf Consoli nconso hemica ganic c Sulpha	ined Co dated U lidated al content ate Cor	Jndraii Undra	ned	gr	Existing ound less the zero level	evel red ero	<u>Super</u>	Lah vised l Lah d By:	B <u>y:</u> niru	
XXX 	Made Clay	Ground	l	××××× ××××	Silt Sano	d	0000 4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	3		ΔΔΔ ΔΔΔΔ × × ×	=	aterite l		lules		<u>-1</u>	Com	pletel	y Weathered		ed Roo	ck	F	resh	Roc	:k

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Pro	ojeo	t			_	_		ey and soil investi ial television netv	igation for	r the pre	para	tory	surv		Borehole			BH-(		
Cli	ent							neering Co.Ltd							Sheet		1	of		2
Loc	atio	n G	. 1		N.Ma			Rig	Track Wh				54m		Groun	d Water	level	1	.10	m
Date Date				d	19.02 19.02			Drilling Method Casing Diameter		Casing Elevati			15.0	0m	Coordi	nates				
		1 111			Ī	1.2010	ĺ	Cusing Diameter	110011111	Lievan	<u> </u>		Recor	de	Mo	oisture Cor	itent -	%	_	_
ш) q	Sa. Cond	Э.	ype	peo	Depth (m)	pu		Soil Descrip	otion				PT)	_	Undrain 10 20 30	ed Shear S	Strengt 60 7	h - t/r	n <sup>2</sup>	-
Depth (m)	Sa. (	Sa.NO.	Sa.Type	Reduced level	Dept	Legend		-			ш			$\vdash$		Resistance		vs/ft		
0.00								Ground lev	el		15cm	15cm	15cm	z	5 10 15	20 25	30	35 4	0 4	45
	X	D1	DS		0.00	0	Gray	fine to medium su	b angular	to sub				l			-	$\vdash$	-	
-			WS			0	rounded	CORAL SAND		and sea				l			+	$\vdash$	$\dashv$	_
1.00			WS					shell fragm	ents										$\dashv$	
-	$\nabla$	D2	SS	<u> </u>	1.00	. V					4	6	6	12				$\Box$		
				G.W.L		()									<b>↑</b> 12					
			ws	at		0														
2.00				1.10m														$\Box$	_	
	X	D3	SS			0.					3	4	8	12	12		-	$\vdash$	-	
-			WS			V		um dense gray fin									+	$\vdash$	$\dashv$	
3.00			**5			0	_	to sub rounded CO											$\dashv$	
	$\nabla$	D4	SS			. 0	C	oral fragments an	d sea shell	S	6	6	7	13						
L						<b>v</b>									1:	3				
						0										$\downarrow \downarrow$	_		_	
<u>4</u> .00			WS			1								H		+	+	$\vdash$		
						.0											+	$\vdash$	$\dashv$	
F	$\vdash$	D5	SS		4.50	10.0					10	21	19	40			+			
5.00	$\triangle$	20	55		4.50	V					10	21	17	10				$\wedge$	40	
						0	Dense gray medium to coarse sub angular to sub rounded CORAL SAND with abundant amount of coral rock fragments and sea shells											$\mathbb{Z}$		
L			ws			. ()											$\perp /$			
							umount (	or corar rock rragi	inemis una	sea silein				l			+	$\vdash$	-	
<u>6</u> .00						0					_			<b>.</b>		+	_	$\vdash$	+	
	X	D6	SS		6.00	V					5	8	16	24		24	1		$\dashv$	
-						0														
7.00			ws			0		_												
						•		um dense gray fine to sub rounded CO						l		$/\!\!\!\perp \!\!\!\perp$	_		_	
L						0	coral f	fragments and sea						H	+++/		+	$\vdash$	-	
	X	D7	SS			Ū		nt of coral rock fra			10	8	5	13	1:	3		$\vdash$	$\dashv$	
8.00							obsei	rved between (7.5	0-9.00)m o	depth								$\Box$		_
			ws			V.														
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9.00						1. · · · ·n · ·								l	-H		-	$\vdash$	_	
	$\mathbb{N}$	D8	SS		9.00	10.	Loose	grayish white med	lium to coa	arse sub	11	4	2	6	6				-	
L						V		to sub rounded CO							$+ \lor +$		+	$\vdash$	$\dashv$	
10.00			WS			0		hard coral rock f	ragments								+	$\Box$		
10.00						٧										Remarks	Log	ged By	:	
SPT					tion has not been achieved D - Disturbed Sample N - Natural Moists or the quoted penetration SS -SPT Sample L - Atterberg Lim W - Water Sample G - Grain Size An observed inside the WS-Wgrey Sample SG -Specific Gravitation UD- Undisturbed Sample B - Bulk Density							itent		solidation	1 Compression	Б		La	hiru	
L	is g	iven (	not N-	value)							alysis		CU - Co	onsolidate	ed Undrained	Existin ground le	Sur	pervised		
GWL				Level obse the saturat							ity Test		UU-Un pH - Ch		ted Undrained	consider	ed	La	hiru	
NE HB			ntered	re.	CS- Core Sample V - Vane Shear								-	anic cont Sulphate (		as the ze level	ro <u>Dri</u>	lled By:		
FD		mmer ee Do	( , , , , , , , , , , , , , , , , , , ,										oride Con				Dan	ushka		
	=		Groun	ıd	x××××	Silt		တ္စိုင္တိ Gravel	Δ Δ Δ Δ Δ Δ			lules		=	mpletely Weat		- 1	$\preceq$		
	Cla	ıy		Sand Organic Matter XX Silty Sand					and			High	nly Weathered	Rock		Fresh	Roc	:k		

Ęļ	<b>,</b>	롥	Ę	E	Tel/ Fax: +960 334 6000, 52, Boduthakurufaanu M Email: info@elsamin.com  Topographic survey and soil investigation for the preparatory surve						lagu	, Maafann	u, M	ale' 2	0-01			ves				
Pro	jec	:t		inte	Topo	grap	hic surve	y and	soil invest	igation	for the pr	epara	atory	surv						BH-		
Clie									g Co.Ltd							Sheet			2	of		2
Loca					N.Ma			Rig			Whe Core I			54m		Grou	ınd W	Vater l	evel	1	1.10	) m
Date					19.02				ng Method					15.0	0m	Coor	dinate	es –				
Date	10	Fin	ishe	<u>a</u>	19.02	.2016	) 	Casin	g Diameter	TOOmr	n Elevat	T		<u></u>				re Con	tent	0%		
(m)	ρι		e	_	(m)	_						F	ield I		ds			Shear S			m <sup>2</sup>	
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		,	Soil Descrip	ption			(S)	PT)		10 20 30		50		70 8	9	<del>100</del>
	Sa.	Sa.]	Sa.	Rec	De	Leg						.5cm	.5cm	5cm	z			stance			_	_
10.00								С	ontinue from	Page 1		15	15	15	-	5 10 1	5 20	25	30	35 4	40 4	45
					10.00	0		S	Same as pre	vious							$\downarrow \downarrow$	_	+	$\perp$		
									•			4					+	_	$\perp$	$\perp$		
	Χ	D9	SS		10.50	0						14	13	10	23			23	1	$\perp$		
11.00	$\triangle$					0	Medir	ım der	se grayish	white m	nedium to								$\perp$	$\perp$		
									gular to sub								$\perp A$		$\perp$	$\perp$		
_			WS			()			n hard coral								$ \mathcal{L} $		_	$\perp \!\!\! \perp \!\!\! \perp$		
						0											$/\!\!\!\perp$		$\perp$	$\perp$		
12.00												1					$\sqcup$		$\perp$	$\perp$		
	$\bigvee$	D10	SS		12.00	0						8	6	3	9	49	$\sqcup$		$\perp$			
_	$\triangle$					0	Lacas	~~~~;1		linus to									$\perp$			
									n white med rounded CO								$\searrow$		$\perp$			
13.00			ws			0	angulai		coral rock f			•					$\perp$	$\downarrow$	╄			
						- : ():		naru	corar rock i	nagmen	its							$\setminus$				
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	$\bigvee$	D11	SS		13.50	0						18	20	17	37							
14.00	$\triangle$					0													$\perp$	<b>A</b> 3	7	
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_						ν - · · · · · · · · · · · · · · · · · ·	angular		rounded Co													
15.00						V		hard	coral rock t	tragmen	its											
_	egraphism	D12	SS			0						15	18	21	39							
	$\triangle$					·V·] .														<b>A</b>	39	
_					15.45		END (	OF TH	E BORE H	OLE A	Γ 15.45m											
16.00									DEPTH	I												
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L																	$\Box$		$\top$			
20.00																	$\Box$		$\top$	П		
20.00				<u> </u>	l	Sample Key / Test Key				1	I		<u> </u>		<del></del>	Remarks	Lo	gged B	y :	_		
SPT					n has not been achieved D - Disturbed Sample N - Natural Mo						C - Cor			十		十			_			
					he quoted penetration SS -SPT Sample L - Atterberg l W - Water Sample G - Grain Size					t			ned Compression	F	Existing			ahiru				
GWL	_			-value) Level obse	erved inside the WS-Wgrey Sample SG -Specific G					it			ated Undrained dated Undrained	_	und lev	vei	pervise	и БУ:				
	Bo	rehole	, after	the saturat	ation UD- Undisturbed Sample B - Bulk Dens				B - Bulk Density			pH - Cl				nsidere the zer	., L		ahiru			
NE HB			ntered Bound	ce	CS- Core Sample V - Vane Sher				V - Vane Shear	Γest		O - Org		e Content	as	level	<u>Dr</u>	illed By	<u>C</u>			
FD		ee Do	( , , , , , , , , , , , , , , , , , , ,							Cl' - Cle						Da	nushka	ì				
$\rangle\rangle\rangle\rangle$	Ma	IX X XI IO O S I IAAAAI				ΔΔΔΔ Later	ite No	dules		<u>:</u> ] (	Completely We	athere	d Rock	: [	$\bigvee$							
	Cla	Clay Sand Organic Matter Silty S				Sand			Hi	ghly Weathere	d Roc	k		Fres	h Roc	ck						

	•	를			Tel/ Fax: +960 334 6000 52, Boduthakurufaanu M Email: info@elsamin.co Topographic survey and soil investigation for the preparatory surve									lagu,	Maafannu	ı, Male' 20	0-01, N	
Pro	_				Topo the d	grap igital	hic surve terrestri	ey and soil investi ial television netv	igation f	or the pre	para	itory	surv	ey on	Boreho	le No	ВН	I-02
Clie								neering Co.Ltd	Im 1 x	W 10 F			1		Sheet	1 1 1 1		of 2
Loca Date			tod		N.Ma 25.02			Rig Drilling Method		VheCore I Casing			54m 15.0		Grou	nd Water le	evel	1.10 m
Date					25.02			Casing Diameter					13.0	OIII	Coord	linates		
			, sinc			1	<u> </u>	casing Brameter	1001111	270 / 410			<u> </u>	1.	N	Ioisture Cont	ent - %	
Depth (m)	puc		be	pe	Depth (m)	p		Soil Descrip	ntion		F		Recor PT)	as		ined Shear St		t/m <sup>2</sup>
epth	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	epth	Legend		Son Descrip	MOII					[	10 20 30		50 70	80 90
0.00	S	Sa	Šį	Re le	Ā	ĭ		Ground lev	el		15cm	15cm	15cm	z	5 10 15	Γ Resistance -	30 35	40 45
-	X	D1	DS		0.00	0		fine to medium su	ıb angula			-	1		3 10 12	3 20 23	30 33	40 43
1.00			WS	+		0		shell fragm	ents									
2.00	X	D2	ss ws	G.W.L at	1.00	0	angular	um dense gray find to sub rounded CC coral fragments and	ORAL S.	AND with	4	5	18	23		23		
-	X	D3	ss ws	1.10	2.00	0		gray fine to mediu	AND wi	th coral	4	7	1					
3.00	X	D4	SS		3.00	0		fragments and s	ea snens		7	4	7	11				
<u>4</u> .00			WS			0												
<u>5</u> .00	X	D5	ss ws			0	Medi	um dense gray fine	e to med	ium sub	9	9	6	15		15		
6.00 -	X	D6	SS			0	angular abundan sea she	to sub rounded CC t amount of coral rells; (6.00-7.50)m core of (4-5)cm co	ORAL S. rock frag depth h	AND with gments and coral		11	3	14		14		
7.00 - 8.00	X	D7	ws ss			0.0					11	10	6	16		16		
9.00			ws			0	Off whi	ite highly weathers	ad bi abb	v fuo otvino li								
9.00	X	D8	ss ws			0	mediu caviti	m grained CORA ies could be obser	L ROCE	X ;Small the core	12	11	9	20		20		
10.00		9.50 00 sar						with stained yello fracture sur	-	ed on the	Cr=	=27%	RQD	<b>)</b> =0%				
SPT	T Where full 0.3m penetration has not the number of blows for the quoted					een ook!	eved	D - Disturbed Sample	1,	N - Natural Mois	ture Co	ntert	C C	nsolidatio	n	Remarks	Logged	By:
or i								SS -SPT Sample		N - Natural Mois L - Atterberg Li					n d Compression	Eviation		Lahiru
	is given (not N-value)							W - Water Sample		G - Grain Size A	nalysis		CU - C	onsolidat	ed Undrained	Existing ground leve	Suparvi	
GWL					rved inside	e the		WS-Wgrey Sample UD- Undisturbed Sample		SG -Specific Grav B - Bulk Density	ity Test	t	UU-Un pH - Cl		ated Undrained	considered	1	Lahiru
NE	Borehole, after the saturation  E Not Encountered							CS- Core Sample		B - Bulk Density V - Vane Shear T	`est		1	nemicai ganic con	tent	as the zero	Drilled	
НВ	-Ha	mmer	Bounc	e				Cr - Core Recovery (%)					SO <sub>4</sub> <sup>2-</sup> -	Sulphate	Content	level		-
FD XXX	_	ee Dov		1	X,, x X	C:1		RQD-Rock Quality Designa		ΔΛΔΝ			Cl - Cl	oride Cor				Danushka
~~~			iroun	a	x^, xx	Silt		Gravel	-	Lateri		dules		7	ompletely We			<b>.</b>
	- Clay					San	(I	Organic Matt	ter	× × Silty S	and		·~`-	· I Hio	hly Weathered	n Rock	Fre	esh Rock

$\{   $	•	롱	ş		rnatio	nal	AM private li	mited			:	52, I Ema	Fax: + Boduth ail: info	akuı @el	rufaa sami	nu M n.con	agu. 1.mv	, Ма 7, W	aafa	nnu	, M	ale	20	-01,			ves.
Pro	•				the di	igital	l terrestr	ial tele	evi	oil invest							ey or			ehol	e N	О			3H-(	)2	2
Clic					M/s. N.Ma		iyo Engi	ineerin Rig	ng	Co.Ltd	Trock	Wh	Core D	iom	ator	54m			She	et rour	ad V	Vote	2		of	1.10	2
Date			ted		21.02				ino	Method			Casing			15.00							1 10	VCI		.10	111
Date					21.02					Diameter			Elevati			15.00	<i>J</i> 111		Co	oord	inat	es	<del>                                     </del>		_		
							Ī		-0							<u> </u>	1_			M	oistu	ıre C	onte	nt - 9	6		_
Depth (m)	Sa. Cond		be	p	Depth (m)	р			Ç.	il Descri	ntion			F		Record	1S		U	ndrai	ned :	Shea	r Str	ength	ı - t/1	n <sup>2</sup>	
pth	ပိ	Sa.NO.	Sa.Type	Reduced level	pth	Legend		,	30	ni Descri	ption				(S	PT)		10	20		40					90	<del>5</del>
	Sa	Sa	Sa	Re lev	Ď	Le			~		ъ .			.5cm	5cm	.5cm	Z						-	Blow			_
10.00					10.00	_		C	on	tinue from	Page 1			1;	ä	- 11			5 10	) 15	20	) 2	5 3	0 3	5 4	0 4:	.5
					10.00	0															$\dashv$		-	-	$\dashv$	+	-
_			CS			00		5	Saı	me as pre	vious			Cr=	=27%	RQD	=0%							-	$\dashv$	+	_
						ň ()															$\dashv$		_	-	$\dashv$	_	_
11.00						0															_		_	_	$\dashv$	_	_
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			CS			00				ed CORA				Cr-	-30%	RQD=	-22%								_	_	_
12.00			CD			0	cavit	ties cou	uld	l be obser		the	core	C1-	-5070	nqb-	-2270										
						$\bigvee_{i}$				sample	S																
						00																					
					12.50	n 0	0.00																				
13.00						00																					
_								_			ore was obtained as the samples  ed highly fractured AL ROCK; small the eved in the core of the core o																
			CS			0					reved in the core ore was obtained as the samples  ed highly fractured AL ROCK; small reved in the core is  OLE AT 15.45m  Cr=53%  RQD=16  RQD=18						=10%								$\Box$		
-						00	sample .	-	_		core was obtained as ze samples  red highly fractured AL ROCK ;small creved in the core es  HOLE AT 15.45m														$\exists$		
14.00						٨		coras	se ;	gravel siz	e sampl	les													$\exists$	$\top$	
14.00					14.00	₩					ered highly fractured RAL ROCK ;small ereved in the core les  HOLE AT 15.45m														$\exists$	$\top$	
					11.00	0	Off wh	ita hial	h1v	, wyoothon	AL ROCK ;small creved in the core es RQD=18														$\exists$	$\top$	
_						Ŋυ					HOLE AT 15.45m														$\dashv$	+	$\neg$
4.5.00			CS			0					AAL ROCK ;small ereved in the core es Cr=20% RQD=189						18%				$\dashv$			$\neg$	$\dashv$	+	-
15.00 -						Ŋν	Cavi	ies cot	uic	sample	sereved in the core les RQD=189 HOLE AT 15.45m										$\dashv$		$\dashv$	$\dashv$	$\dashv$	+	-
						00				sample	RE HOLE AT 15.45m									$\dashv$				$\dashv$	+	_	
_					4.5.00	V	EMP	OF THE		DODE II										$\dashv$				$\dashv$	+	-	
					15.00		END	OF TH	iĿ											$\dashv$		$\dashv$	$\dashv$	$\dashv$	+	-	
16.00										DEPTE										$\dashv$		$\dashv$	$\dashv$	$\dashv$	+	-	
																				$\dashv$			-	$\dashv$	+	_	
L																				$\dashv$		$\dashv$	-	$\dashv$	+	-	
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SPT					n has not be ne quoted p			D - Distu SS -SPT		ed Sample			latural Moist Atterberg Lin		ntent	C - Con			nnrese	ion	1.				Ι.	ahiru	
			not N-		quoteu j	Jacuali		W - Wat		-			rain Size An			CU - Co						Exist	ing leve	Supe	ervised		_
GWL		Ground Water Level observed inside the WS-Wgrey Sample SG -Specific Gravity  Borehole, after the saturation UD- Undisturbed Sample B - Bulk Density						ity Test	t	UU-Uno		lated U	ndrair	ied	_		ered	1									
NE		rehole Encou		the saturat	ion			UD- Und CS- Core					ulk Density ane Shear To	est		pH - Ch O - Orga		ntent					zero	Drill	La led By	thiru :	
НВ	-Hammer Bounce Cr - Core Recovery (%)								SO <sub>4</sub> <sup>2</sup> - S			nt			lev	el				_							
FD XXX	- Free Down RQD-Rock Quality Designation (%)								Cl - Clo	ride Co	ntent							Dan	iushka								
$\Diamond\Diamond\Diamond$	:	Made Ground XXXXX Silt Gravel AAAA Laterite Nodules						_			Wea			ock		$\preceq$											
-2-2-	Cla	ay	Sand Organic Matter XX Silty Sand					/ Hig	ghly V	Weat	hered	Roc	k		I	resh	Roc	k									

<u> </u>	•	4		int	Tope	ograj	private li	ey and soil invest							Web: www					
Pro	jec	et			the d	igital	terrestri	al television nety						•	Borehol	e No		3H-(	)1	2
Loca	atio	n			MI/s.		iyo Engii	neering Co.Ltd Rig	Track V	Vhe Core I	Diamo	eter	54m	m	Sheet	nd Water	l level	of	0.40 1	<u>2</u>
Date			rted		27.01		5	Drilling Method		Casing			15.0			i	10 (01		). <del>-</del>	
Date				d	29.01	.201	5	Casing Diameter	100mm				<u>i_</u>		Coord	inates		_		
n)	p				n (ii						F	ield I	Recor	ds –		oisture Co			<del>-</del> 2	
Depth (m)	Sa. Cond	.0.	Sa.Type	Reduced level	Depth (m)	Legend		Soil Descrip	otion			(S)	PT)	-	10 20 30	ned Shear		n - t/r 0 80		_
Dep	Sa.	Sa.NO.	Sa.]	Redi	Dep	Leg					.5cm	.5cm	5cm	z	SPT	Resistance	e - Blov	vs/ft		_
0.00	$\vdash$							Ground lev	el		15	15	15	-	5 10 15	20 25	30 3	35 4	0 45	,
	X	D1	DS	<b>*</b>	0.00	0	Grayish	white fine to med	lium sub	angular to	,					+	-	$\dashv$	_	_
_			11/0	G.W.L		0	sub rou	nded CORAL SA	ND with	sea shell							-	$\dashv$	+	-
			WS			V		fragment	ts								+	$\dashv$	-	-
1.00		D2	SS	at 0.40 m	1.00	0					16	6	13	10		+	+	$\dashv$	+	-
	Х	D2	33	0.40 III	1.00	0					10	O	13	19		<b>1</b> 9	+	$\dashv$	+	_
_			ws			0.0										11		$\dashv$	+	_
2.00						V												$\dashv$	+	
	abla	D3	SS			0					6	8	10	18		11		$\dashv$	$\top$	
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-			ws					n dense grayish w												
3.00						0	sub angi	ular to sub rounde with sea shell f												
	$\nabla$	D4	SS			. ()		with sea shell in	ragments	,	9	15	15	30			\			
	$ ule{}$																30	_		
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4.00			ws			- : ()										$\perp$	_	_	_	
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L						0										-//-	-	$\dashv$	+	_
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5.00	$\vdash$															+	-	$\dashv$	+	-
						V.										H + H		$\dashv$	+	-
-			WS			0										H + H	+	$\dashv$	+	-
							(4.50.7	50) madamth. Tha		a of soud								$\dashv$	+	_
6.00		D6	cc			0,		.50)m depth: The ged from medium	-		9	4	11	15				$\dashv$	+	
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SPT	When	re full	0.3m <sub>1</sub>	penetratio	n has not b	een achi	eved	D - Disturbed Sample	N	N - Natural Moi	sture Co	ntent	C - Cor	solidation		Kemark	Log	sea Dy	<u></u>	
				lows for t	he quoted	penetrati	on	SS -SPT Sample W - Water Sample		L - Atterberg L G - Grain Size A					Compression I Undrained	Existin	Cun		ahiru I Rv	
GWL	_				erved insid	e the		WS-Wgrey Sample	S	SG -Specific Gra	vity Tes	t	UU-Un	consolidat	d Undrained ed Undrained	ground le conside	evei	ervised	<u>. vy.</u>	
NE			, after	the satura	tion			UD- Undisturbed Sample CS- Core Sample		B - Bulk Density			pH - Cl	nemical ganic conte	nt	as the z		La led By:	ahiru	
NE HB			nterea Bound	e				Cr - Core Recovery (%)		v ane Snear	ı cət			sanic conte Sulphate C		level	DIII	icu By:		
FD XXX	_	ee Dov			RQD-Rock Quality Designation (%)  Cf - Clorid    X × × ×   Git   0.09   G										Dan	nushka				
	:		rour	DI	X×××X Silt So Gravel Laterite Nodules					_	npletely Wea			<u></u>	ъ.					
	Cla	ιy			Sand Organic Matter XX Silty Sand					High	ly Weathered	Rock		⊦resh	n Rock	ξ				

Pro	jec	et					hic survey and so terrestrial televisi							ey or	В	orehol	e No		ВН-	-01	
							iyo Engineering C	o.Ltd							S	heet		2	of		2
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			rted ishe	1	27.01 29.01					Casing Elevati			15.0	0m	_	Coord	inates	-			
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Œ	puo		ed	7	(m)	р	Ço;i	Descrip	ation		F		Recor	ds -			ned Shea			m <sup>2</sup>	_
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20.00							
			Sample Key / Test Key			Remarks	Logged By :
SPT	Where full 0.3m penetration has not		D - Disturbed Sample	N - Natural Moisture Content	C - Consolidation		
	the number of blows for the quote	d penetration	SS -SPT Sample	L - Atterberg Limit Test	UCT-Unconfined Compression	Existing	Lahiru
	is given (not N-value)		W - Water Sample	G - Grain Size Analysis	CU - Consolidated Undrained	ground level	Supervised By:
GWL	: Ground Water Level observed ins	ide the	WS-Wgrey Sample	SG -Specific Gravity Test	UU-Unconsolidated Undrained	U	
	Borehole, after the saturation		UD- Undisturbed Sample	B - Bulk Density	pH - Chemical	considered	Lahiru
NE	Not Encountered		CS- Core Sample	V - Vane Shear Test	O - Organic content	as the zero	Drilled By:
НВ	-Hammer Bounce		Cr - Core Recovery (%)		SO <sub>4</sub> <sup>2</sup> - Sulphate Content	level	
FD	- Free Down		RQD-Rock Quality Designation (%)		Cl - Cloride Content		Danushka
$\times\!\!\times\!\!\times$	Made Ground xxxx	x X Silt	ာ္တိုင္တေ Gravel	ΔΔΔΔ Laterite Nodules	Completely Weat	hered Rock	$\approx$
	Clay	- I Sand	Organic Matter	x X Silty Sand	Highly Weathered	Rock	Fresh Rock
		_					_

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Pro	ojeo	et			the d	igital	terrestr	ial tel	levision net	stigation	ı for th	e pre	epar	atory	surv		Bore	ehole			ВН		
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epth	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	ept	Legend			Bon Beser	iption			_	`			10 20		40 50		70 Blows/f	80 <del>0 90</del>	<b>≫</b>
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3.00						0			ca shen ma	gments									1	$\downarrow$		$\sqcup$	_
	M	D4	SS		3.00	0							10	30/	15	>50				$\downarrow$	30	$\perp$	_
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		given (			ne quoteu	penenan	on .		ater Sample		G - Grain	-					ed Undraine	d	Exist ground	_	Supervio		
GWL				Level obse the satura	erved inside	e the		_	rey Sample disturbed Sample		SG -Specif B - Bulk I		ity Test	t	UU-Un pH - Ch		nted Undrain	ed	consid			Lahiru	
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Date	10	rın:	isne	a	29.01	.2016	)	Casin	g Diameter [100m	III E	ievai			i			1	loict	uro C	onto	nt - %			_
(m)	ρι		e	_	(m)	_						F		Recor	ds	-					ength -	t/m <sup>2</sup>	_	-
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-						00	\	CO	ral rock fragments	3	/											+	+	_
			CS			۸۸	<u> </u>				/	Cr	-60%	RQD	_210/							+	+	_
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SPT	Whe	re full	0.3m	penetration	has not be	en achie	eved		Sample Key / Test Key urbed Sample	N - Natur	ral Mois	ture Co	ntent	C - Cor	nsolidat	ion		+	Rema	1 KS	Logged	ъу:	—	_
				-	the quoted penetration SS -SPT Sample L - Atterberg Limit Test UCT							ned Compre	ssion		Exist	ino	L	Lahiru	u					
				value)	*							ated Undrai			ound	_	Superv	ised By	5					
GWL											nconsoli hemical	dated Undra	ained		onsid		1	Lahiru						
NE			, after ntered	uie saturat	e saturation UD- Undisturbed Sample B - Bulk Density  CS- Core Sample V - Vane Shear Test					-	nemicai ganic co			a	s the	zero	Drilled		_	_				
HB			Bound	· · · · · · · · · · · · · · · · · · ·								e Content			lev	el		_	_	_				
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$\Diamond \Diamond \Diamond \Diamond$	Ma	ide C	Grour	nd	x××××	Silt		ြလ္လိွမ္ခ	Gravel		Lateri	te No	dules		<u>:</u> 1 0	Complete	ly We	ather	ed R	ock		1		
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$\mathbf{q}$	•	튾	퇄	Inte	LS	<b>&amp;</b>	AM private li	<b>IN</b>			Tel/ F 52, Bo Email:	duth	akuı	rufaa	nu M	Iagu	Maafa	annu,	Ma	ale' 2	0-0			ves
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the number of blows for the quoted penetration is given (not N-value)  W - Water Sample  W - Water Sample  WS-Wgrey Sample  WS-Wgrey Sample  UD- Undisturbed Sample  Not Encountered  Not Encountered  HB - Hammer Bounce  L - Atterberg Limit Test  G - Grain Size Analysis  CU - Consolidated Undrained  UU-Unconsolidated Undrained  UU-Unconsolidated Undrained  UU-Unconsolidated Undrained  pH - Chemical  as the zero  Dilled By:    Existing ground level	19.00 - 20.00																						
the number of blows for the quoted penetration is given (not N-value)  W - Water Sample WS-Wgrey Sample WS-Wgrey Sample UD- Undisturbed Sample Borehole, after the saturation WE Not Encountered WS-Wgrey Sample CT - Core Recovery (%) WGD-Rock Quality Designation (%)  Made Ground  L - Atterberg Limit Test UCT-Unconfined Compression CU - Consolidated Undrained UU-Unconsolidated Undrained UU-Unconsolidated Undrained UU-Unconsolidated Undrained pH - Chemical SG - Specific Gravity Test UU-Unconsolidated Undrained pH - Chemical O - Organic content SO <sub>2</sub> <sup>2</sup> - Sulphate Content CT - Cloride Content  Danushka  Laterite Nodules  Completely Weathered Rock									<u>s</u>	ample Key / Test Key									Re	marks_	Logg	ed By:	
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_			ws	G.W.L		0.	angular t	to sub rounded Co	ORAL SA	AND with						+	
2.00			ws	at		V		sea shell	ls								$\backslash + \vdash \mid$
2.00	7	D3	SS	1.40 m	2 00	0.					16	20	22	42			+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
	X	23	55		2.00	. 0					10	20					42
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Г	$\nabla$	D4	SS			- ()		grayish white fir to sub rounded Co			14	16	19	35			
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						0		sea shen mag	mems								
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L.	$\triangle$					<b>.</b>	Mod	ium Dense grayis	h white	fina to						1 23	
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8.00	,																
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	$\nabla$	D8	SS		9.00	₩.	D	i-11-i4- £:-	4	Ľ1.	22	21	18	39			39
L	$\triangle$					0		grayish white fir to sub rounded Co									\
			ws				angulai	sea shell frag		AND WIII							+++++
10.00						0			,							De	anned Pri :
SPT	Whe	re full	0.3m	penetration	has not be	een achie	eved	D - Disturbed Sample	N	N - Natural Moist	ure Cor	ntent	C - Con	solidati	on	Remarks I	ogged By :
				lows for ti value)	ne quoted p	enetrati	on	SS -SPT Sample W - Water Sample		Atterberg Lin G - Grain Size Ar					ed Compression ated Undrained	Existing	Lahiru Supervised By:
GWL					rved inside	the the		WS-Wgrey Sample	S	G -Specific Grav		t	UU-Un	consoli	lated Undrained	ground level considered	
NE	B -Hammer Bounce Cr - Core Recovery (%)												1	emical anic co	ntent	os the zero	Lahiru Drilled By:
НВ													SO <sub>4</sub> <sup>2</sup> 5	Sulphate	e Content	level	
FD XXX	_	ree Down RQD-Rock Quality Designation (%)											Cl' - Clo	oride Co		though D = 1	Danushka
	Cla		noul	iu	X x x	San	d	Organic Mat	-	Laterit		iuies		=	ompletely Wea ghly Weathered	1	Fresh Rock
	,	,				, ~		Organic Mai		Dmy B			$\leftarrow$	2′′′′	,, ,, camered		

E	B		E	NGI	NEEF			ABORAT VESTIGA					PVT	') L1	ΓD.	N(			Sri Lank			rmat No: LS-SI-02
Pro	jec	t				grap	hic surv	ey and soi	l invest	igation	for	the pre				ey o	n	rehole			ВН-	01
Clie	nt							ineering C	o.Ltd				_					eet		2	of	2
Loca	tio	1			B.Eyo			Rig		Track					54m		·	Groun	d Wat	er leve	el .	1.40 m
Date	of	Star	ted	1	15.01			Drilling N				Casing			15.0	0m	_ (	Coordi	nates	<u> </u>		
Date	OI	Fin	isne	a	16.01	.2016	)	Casing D	iameter	100mr	n	Elevati		_	i	T			oisture C	ontent		-
(m)	pu		ec.	p	(m)	p		C - 11	D:	.4:			F		Recor	ds	1		ed Shea			m <sup>2</sup>
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		5011	Descrip	otion				(SI	PT)		10 2	20 30		0 60	70 8	90●
10.00	S	Sa	S	Re	Ď	Ľ		Contin	ue from l	Page 1			5cm	15cm	5cm	z	5	10 15	Resistar 20	ice - BI		40 45
10.00						- : :():							1	1	_			10 13	20 .	.5 50	35 .	10 43
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_	abla	D9	SS		10.50	0							- 15	30	21/	>50					_	$\Box$
11.00	Δ		ws			V		nse graysił							10cm							>50
-					11.00	,		to sub rou														
							COI	ral rock fra	gments	and sea	a snei											
_							END	OF THE B	ORE H	OLE A	T 11.	.00m										
12.00								]	DEPTH	[												
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20.00								Con1	o Koy / Te-4	Kov									Pow-	eke IIv	oggad P	<u> </u>
SPT	Whei	e full	ull 0.3m penetration has not been achieved					D - Disturbed S	ample	<u> Ney</u>	N - Na	atural Moist	ure Con	ntent	C - Cor	solidati	on		Rema	188	.ogged B	<u>y</u>
	the number of blows for the quoted penetration is given (not N-value)					on	SS -SPT Sample				tterberg Lin					ed Compre		Exis	- 0		ahiru d Ry:	
GWL	: Ground Water Level observed inside the Borehole, after the saturation							W - Water Sam WS-Wgrey Sam				rain Size An pecific Grav					ted Undrai ated Undra		ground	ievei-	Supervise	u Dy.
NE				the saturat	ion			UD- Undisturbe				ılk Density	act		pH - Cl		utant		considerate as the	7000		ahiru
NE HB FD	Not Encountered -Hammer Bounce							CS- Core Sampl Cr - Core Recov			v - Va	ane Shear To	est			ganic cor Sulphate	Content		lev	±	Orilled By	Ŀ
FD XXX		ee Dov			[X♥ ¥			RQD-Rock Qua		ation (%)	A A A A					oride Co	ntent				Da	nushka
$\sim\sim$			roun	ıd	x× <sup>*</sup> x <sup>*</sup> x	Silt	,	S Gra			ΔΛΔΔ ΔΛΔΔ			lules		_	omplete	-		ock	$\stackrel{-}{\sim}$	
	Cla	ıÿ				San	u	Org	anic Mat	ter	×××	Silty S	and			∠Hig	hly Wea	athered	Rock		Fres	h Rock

$\epsilon$	B		E	NGII	NEEF			BORATO VESTIGATI				PVT	() LT	ΓD.	NO	Neelan Katuwawala,	Sri Lanka	- 1	Forma	
Pro	jec	t				grap	hic surv	ey and soil in	vestigati	ion for	the pre				ey o	Tel: 0114  Boreho			BH-02	,
Clie	ent							neering Co.L		proje		. 110	publi	- 01		Sheet		1	of	2
Loca	ıtioı	n			B.Eyo			Rig			Core D			54m		Grou	nd Wate	r level	1.4	40 m
Date Date				J	16.01 17.01			Drilling Met Casing Diam			Casing Elevati			15.0	0m	Coord	linates			
	01	LIII	sne	a		.2010	)	Casing Dian	ietei 100	111111	Elevan			<u>i</u>		N	Ioisture Co	ontent -	<u>-</u>	
(m)	puc		be	pe	(m)	pı		Soil De	scription			F		Recor PT)	ds		ined Shear			_
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Son De	scription							10 20 30	40 50 Resistanc		70 80 <b>0</b>	<del>-90●</del>
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_	$\triangle$							fine to mediu												
			WS			0	Tound		ments	iii sea i	311011									
1.00						•													-	-
	Χ	D2	SS	<b>\</b>	1.00	. ^	Medium	dense off wh	nite fine t	o medi	um sub	4	8	10	18		18			+
-	$\rightharpoonup$		1110	G.W.L		0,	angular t	to sub rounde	d CORA	L SAN	D with						$\overline{}$			+
2.00			WS	G.W.L		V		sea s	shells								$\rightarrow$	$\forall$		+
2.00	7	D3	SS	1.40 m	2 00	0						15	17	22	39			$\rightarrow$		+
	$\triangle$	20	55		2.00	. 0						15	1,		0,				39	,
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						۷.			c											
6.00						0		grayish white to sub rounde											$oxed{oxed}$	$\perp$
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	X	D8	SS			0						20	23	24	47			+	4	7
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			WS			0												+	+	+
10.00						'V·											Remar	ks Lo	gged By :	
SPT					n has not be			D - Disturbed Sampl	e		Natural Moist		ntent		solidati					
				lows for t value)	he quoted p	enetrati	OII	SS -SPT Sample W - Water Sample			Atterberg Lin Grain Size An					ed Compression ated Undrained	Existi	Cm	Lahir pervised By	
GWL	: Gre	ound V	Vater l	Level obse	rved inside	the		WS-Wgrey Sample	nnla	SG -S	Specific Grav			UU-Un pH - Ch		lated Undrained	ground l conside	ievei —		
NE		rehole Encour		the satura	IOII			UD- Undisturbed San CS- Core Sample	npie		Bulk Density /ane Shear To	est			anic co	ntent	as the z	DI	Lahir illed By:	u
HB FD		mmer ee Dov	Bound	e				Cr - Core Recovery RQD-Rock Quality I		,					Sulphate oride Co	Content	leve	1	Danush	hka
888	_		rour	ıd	×××××	Silt		Gravel	эсэг <u>д</u> нанон (%		Laterit	e Noc	lules	( - Cl	_	ompletely We	athered Ro	ck	Danusi	
	Cla	ıy				San	d	<del></del>	Matter	.×.×	_				=	ghly Weathered			Fresh R	lock

6	1		E	NGI	NEEF					SERV		PVT	(i) L'	ΓD.	No	O 62/3, N Katuwa	Neelami awala, S			1	ormat	
	V									S DIVISI							01143	09 494	1	'	ELS-S	1-02
Pro	jec	et								tigation f work pro					ey o	n Bo	rehole	e No		BF	I-02	
Cli	ent						iyo Engi			work pro	ject ili til	e Ke	publ	ic or		Sh	eet		2		of	2
Loca	atio	n			B.Eyo	lhafu	shi	Rig			heCore I			54m			Groun	d Wa	ter le	vel	1.40	0 m
Date				1	16.01				Method		Casing			15.0	0m	$\dashv$	Coordi	nates	. ⊨			
Date	01	rın:	isne	a	17.01	.2010	)	Casing	Diameter	100mm	Elevat			<u>i_</u>			Mo	oisture	Conte	nt - %		
(m)	Cond		be	pe	(m)	рı		So	il Descrip	ation		F		Recor PT)	ds		Undrair	ned Sh	ear Str	ength -	t/m <sup>2</sup>	
Depth (m)	Sa. C	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		50.	n Deseri	otion		_				10 2	20 30 SPT		50 60 ance - ]		ft.	90●
10.00	01	S	<i>S</i> <sub>2</sub>	R I	ī	I		Cont	tinue from	Page 1		15cm	15cm	15cm	Z	5	10 15	20	25 3		40	45
						1		Sar	ne as pre	vious										$\Box$	$oxed{\Box}$	$\Box$
L								Sur	ne us pre	V1045		<u> </u>						_	$\perp$	_	_	$\sqcup \setminus$
	X	D9			10.50	0	Very dei	nse gravs	ih white	fine to me	edium sul	20	26	30/ 8cm	>50		-	+	$\perp$	_	$\rightarrow$	50
11.00	$\vdash$		WS		11.00	<u> </u>				ORAL SA				ociii		-	+	+		-	+	
					11.00		cor	al rock fi	agments	and sea s	hells /							+	+	+	+-	
-							END (	OF THE	BORE H	OLE AT	11 00m							+		+	+	
12.00							21.2		DEPTH		11100111									$\top$		
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SPT	When	re full	0,3m r	penetration	n has not be	een achi	eved	Sam D - Disturbe	nple Key / Test		- Natural Mois	ture Co	ntent	C - Cor	ısolidati	on		Rei	nark <u>s</u>	Logged	By:	
J. 1	the	numb	er of b	lows for t	he quoted p			SS -SPT Sam	ple	L	- Atterberg Li	mit Test		UCT-U	nconfin	ed Compre		Ex	isting	<u></u>	Lahiru	
GWL	_		not N- Water I		rved inside	the the		W - Water Sa WS-Wgrey S			<ul> <li>Grain Size A</li> <li>Specific Grav</li> </ul>		t			ited Undrain dated Undra		grou	nd leve	Superv	ised By:	
	Bo	rehole	, after	the saturat				UD- Undistu	bed Sample	В	- Bulk Density			pH - Cl	nemical		-		idered e zero	D ""	Lahiru	
NE HB			ntered Bounc	e				CS- Core San Cr - Core Rec		V	- Vane Shear T	est		O - Org		ntent e Content			evel	Drilled	RÀ:	
FD XXX	- Free Down								uality Designa		ΔΔΔ			Cl - Cl	oride Co				ъ .		Danushk	(a
	Ma Cla		roun	ıu	x^x^x	Silt San	d		ravel rganic Mat		Lateri		dules	<b>**</b>	_	omplete	-		Rock	E-	a esh Ro	nck
	1	J				1 20.11	-			····	الاستاد ليم			$\leftarrow$		,, ,, ,,		-100K			110	

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Pro	jeo	et			Topo	ograp igital	hic surv	ey and ial telo	d soil inve	stigation	for t	he pre	epar	atory	surv		Bore	hole			E	3H-(		
Loca	i				M/s.` LH.N			neerin Rig	ng Co.Ltd	Track	What	Toro D	iom	otor	54m		Shee		1337	ater l	-	of	0.90	2
Date			ted		02.02				ng Method			Casing			15.0					- 1	ever		J.90	Ш
Date					03.02				ng Diamete			Elevati			13.0	0111	Co	ordin	ate	s —			-	
					Ī				<u>U</u>	•				ield F	2000	40		Moi	sture	e Cont	ent - 🤉	%	_	_
m) u	puo		be	pa	m) u	ρι			Soil Descr	intion			Г		PT)	18				near St				
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend			2011 2 0001	-puon			_				10 20	30 CDT D	40	50 tance -	60 70		) <del>- )</del>	••
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1.00				<u> </u>		1			fragme	nts									$\top$			$\neg$	$\neg$	
-	$\nabla$	D2	SS	G.W.L	1.00								3	2	3	5			$\top$			$\neg$	$\exists$	
	$\triangle$			at		0											<b>A</b> 5					$\neg$		
_			ws	0.90 m		0													$\top$		$\Box$	$\neg$	$\dashv$	
2.00						v			sh white fi										$\top$		П	$\exists$	$\exists$	
	$\nabla$	D3	SS			0	_		rounded C			) with	2	2	2	4			$\top$			$\neg$	$\exists$	
	$\triangle$					0	(	coral a	and sea she	ell fragme	ents						4		$\top$			$\neg$	$\exists$	
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	Х	Do	33			V	_		sub round					I O NO SA				<b>†</b> 1	.5	$\top$	$\Box$	$\neg$	$\neg$	
F						۸			al rock frag						I	íÌ			$\top$			$\exists$	$\exists$	
7.00			WS			0.	shells		loss was			een										$\neg$		
7.00			WS			0		9.45	5m - 10.50	m depths	S								$\top$			$\neg$	$\exists$	
1																			$\dagger$			$\exists$	$\neg$	
F	7	D7	SS			0							4	6	8	14			$\dagger$			$\neg$	$\neg$	
8 00	X	] "	20			1							+	"	0	17		<b>↑</b> 14	1			$\exists$	$\neg$	
8.00	Π																					$\exists$	$\exists$	
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10.00		<u> </u>		<u> </u>	<u> </u>	٧٠.													Re	marks	Log	ged By		_
SPT					has not be				urbed Sample			ural Moist				solidatio			_		T			
1				olows for the value)	ne quoted p	oenetrati	on	SS -SPT W - Wat	Sample ter Sample			erberg Lin in Size An					d Compression ed Undrained			isting	Curre	La ervised	ahiru 1 Bv:	
GWL					rved inside	e the		WS-Wgr	ey Sample			cific Grav		t			ated Undraine			nd lev sidere	eı			
NE				the saturat	ion				listurbed Sample			k Density ne Shear To	201		pH - Ch		lont			sidered he zero		La led By	ahiru	
NE HB		Encou ımmer		ce				CS- Core Cr - Core	e Sample e Recovery (%)		v - Var	ie snear T	est			anic con Sulphate				evel	Drill	ied By		_
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Pro	jec	et						ey and soil invest						vey o	n Borehol	e No	В	H-01	l	
	J							ial television nety ineering Co.Ltd	work pro	oject in t	he Ro	epub	lic of		Sheet		2	of		2
Loca	atio	n			LH.N				Track V	Whe Core	Dian	neter	54n	ım		nd Water			90 ı	n
Date					02.02			Drilling Method			ıg dej		15.0	00m	Coord	inates		_		
Date	of	Fin	ishe	d	03.02	.2016	5	Casing Diameter	100mm	Elev	ation	(m)	<u> </u>	-			0			
(m)	ρι		e	_	(m)						] ]		Reco	ds		loisture Con ned Shear S			2	-
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CITY-	is g	given (	not N-	value)				W - Water Sample	·	G - Grain Size	Analysis	3	CU - C	Consolida	nted Undrained	Existing ground le	Sune	rvised B		_
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	Cla	Made Ground $\begin{bmatrix} x \times x \times x \\ x \times x \end{bmatrix}$ Clay					d	Organic Mat			Sand			Hig	ghly Weathered	l Rock	F	Fresh I	Rock	

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GWL	_	iven (i			erved inside	e the		W - Wat		-		G - Grain Size Ar SG -Specific Grav		t		onsolida consoli				gro	ound	leve	1	ised B	y:	
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Loca					K. Vi			Rig	is consta	<u> </u>	Core I	Diam	eter	54m	m	Grou	nd Wa	ter le		_	0 m
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					he quoted	penetrati	on	SS -SPT	-		L - Atterberg Li		t			ed Compression	Exi	sting	<u> </u>	Lahiru	
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SPT	Whe	re full	0.3m	penetration	n has not be	een achie	ved	D - Distu	rbed Sample		N - Natural Mo	sture Co	ntent	C - Cor	solidation	1	Rem	arks	Logged	ву:	
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CVI				-value)		4		W - Wate	-		G - Grain Size					d Undrained		d level	Supervi	ised By:	
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	;		oul	ıu	× × ^×	Sand	4	**** ****		ttou	<del></del>	ite No	uuies	<del>□</del>	_	mpletely Wea		NOCK	<u> </u>	⊿ ok P	1 -
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GWL				Level obse the saturat	rved inside	the			ey Sample isturbed Sample			ecific Grav	ity Test		UU-Un pH - Cl		ated Undi	ained	_		ered		Susanth	ıa
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NE HB FD		mmer	Bound	ce					Recovery (%)	ntion (0/ )							Content			lev	eI		Nishantl	ha
888 8	_		<sub>vn</sub> Frour	nd	x <sub>x</sub> x <sub>x</sub> x	Silt		RQD-Ro	Gravel	шоп (%)	$^{\Delta}_{\Delta}{}^{\Delta}_{\Delta}{}^{\Delta}_{\Delta}$	Laterit	e Nos	hilee	Cl' - Clo		omplete	ly Was	ather	ed D	ock		visiianti	ıd
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6	13		E	NGI	NEEF			BORATORY			PVT	') L'I	ΓD.	NO	O 62/3, Neelam Katuwawala,	Sri Lanka.	Format No: ELS-SI-02
Pro	jec	et				grap	hic surv	VESTIGATIONS ey and soil invest ial television netw	igation f	or the pre				ey o	Tel: 0114 3		BH-01
Cli	ent							neering Co.Ltd	vork pro	jecci in u	ie K	epub	HC OI		Sheet	1	of 2
Loca	atio	n			K. Ma	aafus	hi	Rig		he Core D			54m		Groun	nd Water leve	ol 0.95 m
Date				d	09.12 09.12			Drilling Method Casing Diameter		Casing Elevati			15.0	0m	Coord	inates	
		1 111	3110			.201.	<u>,</u> 	Cusing Diameter	Toomin	Lievan			Recor	de	M	oisture Content	- %
Depth (m)	Jond	Э.	ype	peo	Depth (m)	pu		Soil Descrip	otion		11		PT)	us	Undrain 10 20 30	ned Shear Streng	gth - t/m <sup>2</sup> 70 80 <del>0 900</del>
Dept	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Dept	Legend		•			ш					Resistance - Blo	
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-			ws	<b>*</b>		0	to sub 1	rounded CORAL S	SAND wi	th coral							
1.00			ws	G.W.L		V		fragment	S								
-	$\nabla$	D2	SS	at	1.00	U.					5	6	7	13			
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2.00								to sub rounded CC								$\rightarrow$	
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<u>-</u>						0		vnish white; preser									
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Г								very few	7							$\bot \bot \bot$	
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			ws				winte, ii	present	and sea si	iciis weie							
10.00 present															Domonto III	agend Pro-	
SPT	SPT Where full 0.3m penetration has not been achieved D - Disturbed Sample N - Natural Moisture C											itent		solidati		Remarks L	ogged By :
				lows for ti value)	he quoted p	enetrati	on	SS -SPT Sample W - Water Sample		<ul> <li>Atterberg Lin</li> <li>Grain Size An</li> </ul>					ed Compression ated Undrained	Existing S	J.R.M.Sashikala upervised By:
GWL	: Gr	ound V	Vater I	Level obse	rved inside	the the		WS-Wgrey Sample	sc	3 -Specific Grav			UU-Un	consoli	lated Undrained	ground level considered	
NE		rehole Encou		the saturat	ion			UD- Undisturbed Sample CS- Core Sample		<ul> <li>Bulk Density</li> <li>Vane Shear Telegraph</li> </ul>	est		pH - Ch O - Org	anic co	ntent		Lahiru rilled By:
HB FD		mmer ee Dov		ce				Cr - Core Recovery (%) RQD-Rock Quality Designa	tion (%)					Sulphate oride Co	e Content ontent	level	Danushka
XXX	_			ıd	×××××	Silt		Gravel		Laterit	e Noc	lules	( - CIC		ompletely Wea	thered Rock	<u> </u>
											and			Hig	ghly Weathered	Rock	Fresh Rock

$\epsilon$	1		E	NGI	NEEF			ABORATORY VESTIGATIONS			PVT	() L	ΓD.	No	O 62/3, Neelam Katuwawala, Tel: 01143	Sri Lanka			mat No: S-SI-02
Pro	jec	et				grap	hic surv	ey and soil invest ial television netv	igation for	the pro								BH-(	)1
Clie	ent							neering Co.Ltd	ork proje	cct iii ti	ic it.	срив	ne or		Sheet		2	of	2
Loca	itioi	n			K. Ma	aafusl	hi	Rig	Track Wh				54m			nd Wate	r leve	l (	).95 m
Date					09.12			Drilling Method		Casing			15.0	0m	Coord	inates			
Date	of	Fin	ishe	d	09.12	.2015	5	Casing Diameter	100mm	Elevati	on (1	m)	<u>l</u>			oisture Co	antant		
(m)	ρι		e	_	(E)						F		Recor	ds		ned Shear			n <sup>2</sup>
Depth (m)	Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Soil Descrip	tion			(S)	PT)		10 20 30	40 50		70 80	90●
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12.00		l														$\perp$	_	$\perp$	
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15.00	$\triangle$						white ;g	grain size changed		nedium							ackslash	$\vdash$	
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								Sample Key / Test					·		Remar	ks Lo	gged By	<u>'</u> :	
SPT					enetration has not been achieved D - Disturbed Sample N - Natur ows for the quoted penetration SS -SPT Sample L - Atter								C - Con		on ed Compression			J.R.M	Sashikala
			ber of blows for the quoted penetration SS -SPT Sample L - Atterberg I (not N-value) W - Water Sample G - Grain Size												ed Compression ited Undrained	Existi ground	Su	pervised	
GWL					rved inside	the		WS-Wgrey Sample		Specific Grav	ity Test	1			dated Undrained	conside		Y	him
NE		rehole Encou		the saturat	ЮП			UD- Undisturbed Sample CS- Core Sample		Bulk Density	est		pH - Ch O - Org		ntent	as the z	<u>D</u> 1	La illed By:	hiru
НВ	-Ha	mmer	Bound	e				Cr - Core Recovery (%)					SO <sub>4</sub> <sup>2</sup> 5	Sulphat	e Content	leve			
FD XXX		ee Do		ıd.	× <sub>×</sub> × <sub>×</sub> ×	C;14		RQD-Rock Quality Designa		Δ ,	_ NT	11	Cl - Clo	oride Co		41 15	-1-	Dan	ushka
			Groun	iu	x^x^x	Silt	1		ΔΔΔ ΔΛΔ.	_		iules		_	ompletely Wea		ock 🔼	Eras!	Dogle
	Cla	ıy	Sand Organic Matter x x S								ana		$\triangle$		ghly Weathered	NOCK		rresh	Rock

(	B		E	NGI	NEEF			ABORATORY VESTIGATIONS		`	PVT	() L	ГD.	N	O 62/3, Neelam Katuwawala,	Sri Lanka.	Format No: ELS-SI-02
Pro	jec	et				grap	ohic surv	ey and soil investial television netw	tigation f	for the pre					Tel: 0114 3		BH-02
Cli	ent							neering Co.Ltd	voik pro	jecet in ti	10 10	срию	ne or		Sheet	1	of 2
Loca	atio	n			K. Ma			Rig	Track Whee				54m		Grour	nd Water leve	el 0.90 m
Date				1	10.12			Drilling Method		Casing			15.0	0m	Coord	inates	
Date	01	ГШ	isne	a	10.12	.2013	) 	Casing Diameter	10011111	Elevati			<u>i</u>		M	oisture Content	- %
(m)	puc		be	pe	(m)	рı		Soil Descrip	ntion		F		Recor PT)	ds		ned Shear Streng	gth - t/m <sup>2</sup>
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Son Descrip	otion		_			1	10 20 30 SDT	40 50 60 Resistance - Blo	70 80 <del> 900</del>
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			ws	<u> </u>		0	to sub i	fragments and s									
1.00				G.W.L		1					ļ						
	Loose off white fine to medium sub ar to sub rounded CORAL SAND with o										4	2	2	4	<b>A</b> 4		
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			WS			V		fragments and s	ea shells						+++		
2.00	$\overline{}$	D2	88		2.00	.0					5	7	6	13	+		
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	$\triangle$					ν.										15	
_						0	C	orai iragments an	id sea sne	ens							
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	X	D5	SS		4.50	1	Wash Sa	mple:			30		НВ				>50
5.00	$\hookrightarrow$					. ^						NO SA	AMPLI	E I			
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c 00						0		fragments and s	sea shens								
6.00	7	D6	22		6.00	·V.^					7	9	12	21			
	Χ	Во	55		0.00	V					ĺ ′		12			21	
						0		dense off white f									
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<u>9</u> .00	$\overline{}$	D8	SS		9.00	0					7	4	9	13			
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H			ws			v	angular	to sub rounded CO		AND with							
10.00	ws coral fragments															<u> </u>	
					•			In a					la -			Remarks L	ogged By :
SPT					n has not be ne quoted p			D - Disturbed Sample SS -SPT Sample		<ul> <li>V - Natural Moist</li> <li>Atterberg Lin</li> </ul>		ntent		nsolidat Inconfir	ion ed Compression	Existing	J.R.M.Sashikala
OFF.	is g	given (	not N-	value)				W - Water Sample	G	G - Grain Size An	alysis		CU - C	onsolid	ated Undrained	ground level	upervised By:
GWL				Level obse the saturat	rved inside ion	the		WS-Wgrey Sample UD- Undisturbed Sample		G -Specific Grav - Bulk Density	ity Test	I		iconsoli hemical	dated Undrained	considered	Lahiru
NE		Encou						CS- Core Sample	v	- Vane Shear T	est			ganic co		as the zero level	rilled By:
HB FD		mmer ee Dov	Bound wn	æ				Cr - Core Recovery (%) RQD-Rock Quality Designa	ation (%)					Sulphat oride Co	e Content ontent	10,101	Danushka
$\times\!\!\times\!\!\times$	Ma	ide C	rour	ıd	×××××	Silt		တ္စ္တိဳန္တဲ့ Gravel	Δ	Laterit	e No	lules		<u>:</u> C	Completely Wea	thered Rock	$\searrow$
	Made Ground x×××× Silt Silt Silt Gravel AAAA Late Clay Sand Gravel X×× Silty Clay Sand Gravel X× Silty										and			Hi	ghly Weathered	Rock	Fresh Rock

¥	B		E	NGIN	NEEF				ATORY SATIONS			,	PVT	`) <b>L</b> ]	ΓD.	NO			ri Lanka			rmat No: LS-SI-02
Pro	jec	t				grap	hic surv	ey and s	oil invest sion netv	tigation	for	the pre				ey o		rehole			вн-	02
Clie	ent						iyo Engi										She	eet		2	of	2
Loca	tio	n			K. Ma			Rig		Track Wh		Core D			54m		(	Groun	d Wate	r leve	:1	0.90 m
Date	of	Star	ted		10.12				Method			Casing			15.0	0m	$\perp$ c	oordi	nates			
Date	of	Fini	she	d	10.12	.2015	)	Casing	Diameter	100mr	n	Elevati	on (1	m)	<u> </u>	Т			isture C	ontont		
(m)	ρι		e	_	(m)	_							F		Recor	ds	ī		ed Shea			m <sup>2</sup>
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		So	il Descrip	otion				(SI	PT)		10 2		40 50		70 8	90●
	Sa.	Sa.ì	Sa.	Red leve	Del	Leg							5cm	15cm	.5cm	z		SPT I	Resistan	ce - Blo	ows/ft	<b>—</b>
10.00						۸.		Con	tinue from	Page 1			15	15	15	~	5	10 15	20 2	5 30	35	40 45
11.00	X	D9	SS			0 0			colour ch			white;	21	10	15	25			25			
12.00	X	D10	ws ss		12.00	0.0							15	13	18	31				31		
13.00			WS			0 0			e to media CORAL S fragment	AND w												
	$\bigvee$	D11	SS		13.50	0	Wash Sa	mple:					18	35	НВ	>50						
14.00	$\triangle$					. ()	Very d	ense whi	te gray fi	ne to m	ediu	m sub	]	NO SA	MPLI	3						>50
			WS			. · · .	angul	ar to sub	rounded	CORA	L SA	ND										
						0																
	$ egthinspace{1.5em}$	D12	SS			0	Medium	dense g	rayish wh	nite fine	to n	nedium										
15.00	$\triangle$					V			ıb rounde												/_	
				-	15.00	0	_		ragments				17	12	16	28				$\mathcal{X}$		
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16.00																						
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20.00																						
SPT	When	re full	0.3m :	penetration	has not be	en achie	eved		nple Key / Test	t Key	N - N:	atural Moist	ure Cor	ntent	C - Con	solidatio	on		Remai	ks L	ogged B	<u>y</u> :
	the number of blows for the quoted penetration SS -SPT Sample L -								L - A	tterberg Lin	nit Test		UCT-U	nconfine	ed Compres		Exist	ing		.Sashikala		
GWI			not N-		rved inside	the		W - Water S WS-Wgrey S				rain Size An pecific Grav					ted Undrair ated Undra		ground	c	upervise	d By:
SWL				the saturat		anc		UD- Undistu				ecific Grav alk Density	ny rest		pH - Ch		acu Ofidra	med	consid		L	ahiru
NE HB		Encou						CS- Core Sar			V - Va	ane Shear T	est			anic cor			as the	브	rilled By	Z:
HB FD		mmer ee Dov	Bounc vn	e				Cr - Core Rec RQD-Rock Q	covery (%) Quality Designa	ation (%)						Sulphate oride Co	Content		1000		Da	nushka
XXX			roun	ıd	xxxxx	Silt		0	ravel	17		Laterit	e Noc	lules	<u> </u>		ompletel	y Weat	hered Ro	ock	$\searrow$	
	Cla	ıy				San	i		Organic Mat	ter	× × ×					=	hly Wea	-			Fres	h Rock

$\epsilon$	B		E	NGI	NEEF			ABORATORY VESTIGATIONS			PVT	') L'I	ΓD.	N	O 62/3, Neelammal Katuwawala, Sri	Lanka.	Format No: ELS-SI-02
Pro	jec	t				grap	hic surv	ey and soil investial television netw	igation	for the pro				ey o	Tel: 0114 309  Borehole N		BH-01
Clie	ent							neering Co.Ltd		_					Sheet	1	of 2
Loca					K. Fe			Rig		Whe Core D			54m		Ground V	Water level	l 1.10 m
Date Date				d	11.12 11.12			Drilling Method Casing Diameter		Casing Elevati			15.0	0m	Coordina	ites	
			isiic			.2013	,	Cusing Branicter	10011111	Elevan			Recor	de	Moist	ture Content -	. %
h (m	ond		ype	pec	h (m	pu		Soil Descrip	otion		11		PT)	us		Shear Streng	
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		1			u			1		sistance - Blo	70 80 <del> 90 </del> ws/ft
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_	$\Box$							ounded CORAL S									
			WS			0		fragment									
1.00		D2	SS	*	1.00	0					2	4	9	12			
	Х	D2	33		1.00	0					2	4	9	13	<b>4</b> 13		
-			ws	G.W.L		0.0											
2.00				at		<b>v</b>		dense off white f									
_	$\bigvee$	D3	SS	1.10m		0	_	to sub rounded CO coral fragments an			6	8	9	17			
	$\triangle$					- 0		orai iraginents an	d sea sne	ens					<del>                                </del>	17	
			ws														
3.00 D4 SS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	
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7.00			WS			0.7											
7.00			""			V		off white fine to m		_							
						Λ	to sub 1	rounded CORAL									
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9.00	9.00 D8 SS C C C C C C C C C C C C C C C C C C										_		Ι.				
											6	4	4	8	8		
-	- ws sign of the state of the s																
10.00																	
	Γ Where full 0.3m penetration has not been achieved D - Disturbed Sample N - Natura												1			Remarks Lo	ogged By :
SPT	the number of blows for the quoted penetration SS -SPT Sample L - Attert is given (not N-value) W - Water Sample G - Grain											itent		solidati nconfin	- 1 C	Existing	J.R.M.Sashikala
ONE	is given (not N-value) W - Water Sample G - Grain GWL : Ground Water Level observed inside the WS-Wgrey Sample SG - Speci										alysis		CU - Co	onsolida	ated Undrained	Existing Suround level	pervised By:
GWL	Borehole, after the saturation UD- Undisturbed Sample B - Bulk I NE Not Encountered CS- Core Sample V - Vane										ity Test		UU-Un pH - Ch			considered	Lahiru
NE         Not Encountered         CS- Core Sample         V - Vane S           HB         -Hammer Bounce         Cr - Core Recovery (%)           FD         - Free Down         RQD-Rock Quality Designation (%)										V - Vane Shear To	est		O - Org		ment	as the zero Dr	rilled By:
FD - Free Down RQD-Rock Quality Designation (%)  Made Ground XXXXX Silt Gravel AAAA La														Sulphatoride Co	e Content ontent		Danushka
Made Ground XXXXX Silt 9000 Gravel								Laterit	e Noc	lules		C	Completely Weather	red Rock	$\overline{\bigcirc}$		
	Cla	ıy			::::::	San	d	Organic Mat	ter	X X Silty S	and			Hig	ghly Weathered Ro	ock	Fresh Rock

+	<b>B</b>		E	NGIN	NEEF			BORATORY			PVT	r) <b>L</b> 7	ГD.	NO	O 62/3, Neela Katuwawala Tel: 0114	ı, Sri Lanka			mat No: S-SI-02
Pro	jec	et			_	grap	hic surve	ey and soil inves	stigation f	or the pr								BH-0	)1
Cli	ent M/s. Yachiyo Engineering Co.Ltd ation K. Feidhoo Rig e of Started 11.12.2015 Drilling Method														Sheet		2	of	2
Loca	atio	n								Vhe Core I			54m		Grou	ınd Wate	r leve	l 1	.10 m
Date	ate of Finished 11.12.2015 Casing Diamete									Casing			15.0	00m	Coor	dinates			
Date	10	Fini	ishe	d	11.12	.2015	)	Casing Diamete	r 100mm	Elevat			<u></u>			Moisture C	ontent	0%	
(m)	pu		e	-	(m)	_					F	ield I		ds		ained Shear			n <sup>2</sup>
Depth (m)	Coı	Š.	Тур	lucec	pth	genc		Soil Descri	ption			(S)	PT)		10 20 3			70 80	90●
	Sa.	Sa.]	Sa.	Rec leve	De	Le					5cm	5cm	5cm	z		T Resistan		ws/ft	
10.00								Continue from	Page 1		15	15	15		5 10	15 20 2:	5 30	35 40	0 45
						0		Same as pro	evious								$\overline{}$	-	
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	X	D9	SS		10.50	0					12	18	23	41		$\square$		$\vdash \setminus$	41
11.00	$\vdash$					()												$\perp I$	
																	_	$\perp$ /	
_			WS			0												+/	
						- 0	Dense of	ff white fine to n	nedium su	b angular								+H	
12.00								ounded CORAL		_							_	$\parallel / \parallel$	
	X	D10	SS			0		fragments and			11	15	20	35				35	
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											30	HB		>50				-	>50
14.00	$\vdash$	1				0												$\vdash$	$\dashv A$
	ws Since ang							oral fragments a	nd sea she	ells							$\perp$	$\vdash$	$-\!\!\!/-\!\!\!\!/$
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	$\bigvee$	D12	SS			0	11	dense off white		١,							_	$\perp$ /	
15.00	$\hookrightarrow$	1					_	o sub rounded C			١							$ \mathcal{L} $	
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_	15.00 CC																	+	
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	Sample Key / Test Key										•	·			Remar	rks Lo	gged By	:	
SPT	the number of blows for the quoted penetration SS -SPT Sample L - Atterb is given (not N-value) W - Water Sample G - Grain :								<ul> <li>Natural Mois</li> <li>Atterberg Li</li> </ul>				nsolidati Inconfin	on ed Compression	r-: -:		J.R.M.S	Sashikala	
	is given (not N-value) W - Water Sample G - Grain WL : Ground Water Level observed inside the WS-Wgrey Sample SG - Speci								- Grain Size A	nalysis		CU - C	Consolida	nted Undrained	Existi	C <sub>11</sub>	pervised		
GWL	Borehole, after the saturation UD- Undisturbed Sample B - Bulk De								G -Specific Gra		t		nconsolio hemical	dated Undrained	conside		Ιa	hiru	
NE	NE Not Encountered CS- Core Sample V - Vane She  HB -Hammer Bounce Cr - Core Recovery (%)							- Vane Shear			I	ganic co	ntent	as the	<u>D</u> 1	illed By:			
FD - Free Down RQD-Rock Quality Designation (%)												Content	leve	ei	Do	ushka			
Made Ground XXXXX Silt 9000 Gravel							ΔΔΔ ΔΔΔ Lateri	te No	dules	CI - CI	oride Co	ompletely We	eathered Re	ock	Dan Dan	usiind			
	-					San	E	Organic Ma	_	Silty S				_	ghly Weather			Fresh	Rock

(	1		E	NGI	NEEF			BORATORY		•	PVT	() L	ΓD.	N	O 62/3, Neelam Katuwawala,	Sri Lanka.	Format No: ELS-SI-02
Pro	jec	t				grap	hic surv	VESTIGATIONS  ey and soil invest  ial television netw	igation f	or the pro					Tel: 0114 3		BH-02
Cli	ent							neering Co.Ltd	jecci in u	IC IX	срию	ne or		Sheet	1	of 2	
Loca	Accation K. Feidhoo Rig Track W Date of Started 12.12.2015 Drilling Method Rotary Date of Finished 12.12.2015 Casing Diameter 100mm												54m		Groun	nd Water lev	el 1.50 m
				d						Casing Elevati			15.0	0m	Coord	inates	
		1 1111	SHC	u		.201.	<u>,                                     </u>	Casing Diameter	10011111	Elevan			i_ Recor	d a	M	oisture Content	- %
h (m	puo		ype	pec	h (m	pu		Soil Descrip	otion		Г		PT)	us		ned Shear Strer	ŭ
Dept	ša. C	Sa.NO.	Sa.Type	Reduced level	Dept	Legend					я			I	10 20 30 SPT	40 50 60 Resistance - B	70 80 <del> 90 </del> ows/ft
0.00	0,	0,	0,	I				Ground lev	el		15cm	15cm	15cm	Z	5 10 15	20 25 30	35 40 45
	X	D1	DS			1	Gravish	white fine to med	ium sub a	angular to							
_	$\triangle$					. ^		ounded CORAL SA									
			WS			0.		fragment									
1.00		D2	SS	<b>*</b>	1.00	1					4	6	5				
	Х	D2	33		1.00	0					4	0	3	11	<b>A</b> 11		
-			ws	G.W.L		.0.											
2.00				at		v.											
	$\nabla$	D3	SS	1.10m		0					3	3	9	12			
	Δ					. 0			_						12	2	
_	Ws Medium dense off white fine to coarse angular to sub rounded CORAL SAND coral fragments and sea shells																
3.00	angular to sub rounded CORAL SANL coral fragments and sea shells																
	coral fragments and sea shells										11	5	12	17		\	
L																17	
4.00	$\begin{array}{c c} & & & \\ \hline & & \\ & & \\ & & \\ \end{array}$																
-											8	_					
<b>5</b> 00	D5 SS 4.50											3 NO 54	3 AMPLI	6	6		
<u>5</u> .00	D5 SS 4.50 Wash Sample:    O											NO SE	I	<u>.</u>			
	D5 SS 4.50 Wash Sample:																
-			***5			V	to sub i			itii corai							
6.00						0											
	$\bigvee$	D6	SS		6.00						10	18	15	33			
	$\triangle$					. · · ·	_										<b>A</b> 33
						0		grayish white find								$\perp \perp \perp$	
7.00			ws			.: 0	aligulai	to sub rounded CC coral fragm		AND WIIII						-// $-$	
								corar magni	CIICS							A + +	
_						1									++/		
	X	D7	SS		7.50	1	Wash Sa	mple:			8	6	4	10	10		
8.00	$\vdash$					. · · · ·						NO SA I	AMPLI	∃ <b>I</b>			
	Grayish white fine to medium sub angu									-							
F	ws sub rounded CORAL SAND with abun																
0.00	sub rounded CORAL SAND with abur amount of coral fragments																
9.00	.00 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \										5	4	5	9			
	Loose graysih white fine to coarse s angular to sub rounded CORAL SAND											→			• 9		
-																	
10.00	coral fragments and sea shells																
срт												ntar*	C C:	eolid	ion	Remarks	ogged By :
SPT	the number of blows for the quoted penetration SS -SPT Sample L - Atter is given (not N-value) W - Water Sample G - Grain													solidati nconfin	ion ned Compression	Existing	J.R.M.Sashikala
Can	is given (not N-value) W - Water Sample G - Grain WL : Ground Water Level observed inside the WS-Wgrey Sample SG - Spec												CU - C	onsolida	ated Undrained	ground level	Supervised By:
GWL	Borehole, after the saturation UD- Undisturbed Sample B - Bulk I IE Not Encountered CS- Core Sample V - Vane										ity Test	ı	UU-Un pH - Cl		dated Undrained	considered	Lahiru
NE	NE         Not Encountered         CS- Core Sample         V - Vane S           HB         -Hammer Bounce         Cr - Core Recovery (%)           FD         - Free Down         RQD-Rock Quality Designation (%)										est			anic co		as the zero level	Drilled By:
	FD - Free Down RQD-Rock Quality Designation (%)  Made Ground XXXXX Silt Gravel													Sulphat oride Co	e Content ontent	10.01	Danushka
Made Ground XXXXX Silt So Gravel								∆∆∆ Laterit	e No	dules		<u>:</u> 1 C	Completely Wea	thered Rock	$\gtrsim$		
	Cla	ıy				San	d	Organic Matt	ter ×	Silty S	and			Hig	ghly Weathered	Rock	Fresh Rock

$\epsilon$	ß		E	NGI	NEEF			BORAT VESTIGA				•	PVT	') L1	ΓD.	N(			ri Lanka			rmat No: LS-SI-02
Pro	jec	t				grap	hic surv	ey and soi	l invest	tigation	for	the pre					n	rehole			ВН-	02
Clie	ation K. Feidhoo Rig Track Who Co of Started 12.12.2015 Drilling Method Rotary Co														She			2	of	2		
Loca	ration K. Feidhoo Rig Track Who C e of Started 12.12.2015 Drilling Method Rotary C e of Finished 12.12.2015 Casing Diameter 100mm E												54m		(	Groun	d Wate	r leve	1	1.50 m		
Date	of	Star	rted					Ù				Casing Elevati			15.0	0m	- $c$	oordi	nates			-
Date	OI	rın:	Isne	a	Ì	.2013	)	Casing Di	iameter	TOOIII	II	Elevan		_	i	1		Mo	isture C	ontent		
(m)	pu		e e	70	(m)	Ε.		G :1	ъ.				F	ield F		ds	Ţ		ed Shear			m <sup>2</sup>
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Soil	Descrip	otion				(SI	PT)		10 20	0 30	40 50	60	70 8	90
	Sa	Sa.	Sa	Re. lev	Ď	Le		G ::	· ·	D 1			.5cm	l 5cm	5cm	z			Resistan			
10.00						· - ·0·		Contin	ue from	Page I			1;	1;	11		5	10 15	20 2:	5 30	35 4	40 45
						0		Same	e as pre	vious								+		+	+	
_		D9	SS		10.50	Λ							- 8	5	7	12		+		+	+	
11.00	Χ	D9	33		10.50	0							0	3	,	12		12			+	
11.00						V		dense fir											$\forall$	+	+	
			ws			0	sub rour	nded COR.	AL SA	ND with	h abu	ındant							$\rightarrow$	+	+	
_			***5			ν.		amount o	f coral	fragmer	nts									$\wedge$	+	
12.00						V														+		
12.00	abla	D10	SS		12.00	0							28	26	НВ	>50				+	+	
	X	Dio	55		12.00								20	20	1110	/50		$\Box$		+	+	>50
-						0														$\perp$	+	750
13.00	N. sub angular to sub founded CORAL S																	+				
	sub angular to sub rounded CORAL S with abundant amount of coral ro																	$\top$				
	with abundant amount of coral roc									ck								$\top$	+			
-	D11 SS with abundant amount of colar fock fragments and sea shells										25	20	НВ	>50					+			
14.00	fragments and sea shells  WS  The state of t										25	20	1112	250					+	>50		
	4.00   SS																					
	4.00 Ws																	$\Box$		$\top$	$\top$	
_						.v.																
15.00	(15.00-15.45)m depth: The amo											f coral										
15.00	5.00 (15.00-15.45)m									increas	ed		30	НВ		>50						
15.00 D12 SS (15.00-15.45)m depth: The amour reock fragments increased																			>50			
-					15.45		END (	OF THE B	ORE H	OLE A	Т 15.	.45m										
16.00									DEPTH													
_																						
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17.00																						
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18.00																				$\perp$	$\perp$	
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19.00	9.00																	$\vdash$	$\perp$	$\perp$	$\perp$	
															++	+	_	+				
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20.00	Sample Key / Test Key																					
SPT	PT Where full 0.3m penetration has not been achieved D - Disturbed Sample N - Natural in the number of blows for the quoted penetration SS -SPT Sample L - Atterber								atural Moiet	ure Con	ntent	C - Cor	solidati	on .		Remar	ks L	ogged By	y:			
J1 1	the number of blows for the quoted penetration SS -SPT Sample L - Atterber is given (not N-value) W - Water Sample G - Grain Si													on ed Compres	sion	Existi	ng	J.R.M.	.Sashikala			
CWI	is given (not N-value) W - Water Sample G - Grain S GWL: Ground Water Level observed inside the WS-Wgrey Sample SG - Specific Borehole, after the saturation UD- Undisturbed Sample B - Bulk De													ted Undrain		ground	C C	upervise	d By:			
GWL	Borehole, after the saturation UD- Undisturbed Sample B - Bulk De									ny Test		UU-Un pH - Cl		ated Undra	med	consid		L	ahiru			
NE Not Encountered CS- Core Sample V - Vane Sh  HB -Hammer Bounce Cr - Core Recovery (%)							ane Shear To	est			anic cor			as the	<u> </u>	rilled By	<u>/:</u>					
											Sulphate oride Co	Content		1016		Da	nushka					
Made Ground X×××× Silt Gravel AAAA La						Laterit	e Noc	lules			ompletel	y Weat	hered Ro	ock	$\leq$							
	Cla	ıy				San	d	Org	ganic Mat	ter	x x X					_	hly Wea	-			Fresi	h Rock

(	B		E	NGI	NEEF			ABORATORY VESTIGATIONS		`	PVI	r) <b>L</b> '.	ГD.	N	O 62/3, Neelami Katuwawala, S	Sri Lanka.	Format No: ELS-SI-02
Pro	jec	et				grap	phic surv	ey and soil investi ial television netw	igation fo	or the pro				vey o	Tel: 0114 3  n Borehole		BH-01
Clie	ent							neering Co.Ltd			Puol	01		Sheet	1	of 2	
Loca					Adh.I				Track W				54m		Groun	d Water leve	el 0.95 m
Date				d	13.12 13.12			Drilling Method Casing Diameter		Casing Elevati			15.0	0m	Coordi	nates	
	01	ГШ	ISHE	u		.201.	) 	Casing Diameter	10011111	Lievati			<u>i</u>		Mo	oisture Content	- %
n (m)	puo		'pe	pə	n (m)	ρι		Soil Descrip	tion		F	ield I	kecor PT)	as		ned Shear Stren	Ü
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Son Bescrip	tion		_			T	10 20 30 SPT	40 50 60 Resistance - Bl	70 80 <del> 900</del>
0.00	S	S	S	N N		I		Ground leve	el		15cm	15cm	15cm	Z	5 10 15	20 25 30	35 40 45
	$\bigvee$	D1	DS			. ()	Vallowi	sh white fine to me	odium sul	a angular							
_	$\sim$							rounded CORAL		_							
			WS	<b>*</b>		0	10 540	shell fragme									
1.00				=							ŀ						
	X	D2	SS	G.W.L	1.00		Medium	dense off white fi	ine to med	dium sub	5	4	8	12	12		
-			ws	at 0.95 m		0	angular	to sub rounded CC	RAL SA	ND with					$\mapsto$		
2.00			ws	0.95 m		V		sea shells	8								
2.00	$\overline{}$	D3	SS		2.00	()					6	15	17	32		+N	
	igwedge	20	55		2.00			grayish white fine				13	1,	32		<b>—</b>	32
-			ws			v	_	to sub rounded CC									
3.00						0	S	ea snells and coral	iragmen	ts							
	3.00 Medium dense grayish white fine to n sub angular to sub rounded CORAL S										5	10	11	21			
L	Medium dense grayish white fine to a sub angular to sub rounded CORAL with sea shells and coral fragmen										1					21	
	ws Ws Medium dense grayish white fine to sub angular to sub rounded CORAL with sea shells and coral fragme (3.45-4.50)m: Water loss was obse															$A \rightarrow A$	
4.00	sub angular to sub rounded CORAL with sea shells and coral fragmer (3.45-4.50)m: Water loss was observed this particular depth															+++	
	ws with sea shells and coral fragme (3.45-4.50)m: Water loss was obse														$\vdash \vdash \vdash \vdash$		
_	(3.45-4.50)m: Water loss was observed between this particular depth.														+++		
<b></b>	(3.45-4.50)m: Water loss was obser between this particular depth.  3.00  D5 SS  4.50  WS  (3.45-4.50)m: Water loss was obser between this particular depth.										9	7 NO SA	5 VMDI 1	12	12		
5.00	sea shells and coral fragments  3.00  Medium dense grayish white fine to medium sub angular to sub rounded CORAL S. with sea shells and coral fragment (3.45-4.50)m: Water loss was obserbetween this particular depth.  4.50  Wash Sample: Yellowish white fine to medium sub an to sub rounded CORAL SAND with shell fragments											NO SE	AMPLI	<u>г</u> 			
	3.00  Medium dense grayish white fine to me sub angular to sub rounded CORAL SA with sea shells and coral fragment (3.45-4.50)m: Water loss was observed between this particular depth.  WS  D5 SS  WS  WS  WS  D6 SS  Medium dense grayish white fine to me sub angular to sub rounded CORAL SAND with shell fragments  Medium dense yellowish white fine																
-						V	10 540			itii sea							
6.00						0		C .									
	$\bigvee$	D6	SS		6.00	1					4	6	8	14			
L.	$\triangle$					· · · ·	Madi	um danca vallavije	ah subita f	ina ta						17	
						0		sub angular to sub								$\rightarrow$	
7.00			WS			1	mearam	SAND with sea		COTUIL						++	
																	$\mathcal{H}$
_						1	W 1 C	1									
0.00	Х	D7	SS		7.50	1	Wash Sa	mpie:			9	38 NO SA		> <b>50</b>			>50
8.00							White	fine to medium su	ıb angular	to sub		100 57	I	Ĭ			
	White fine to medium s								_								
-																	
9.00	9.00																$\perp \perp \mid / \mid \perp \mid \mid$
_	D8 SS 9.00 V										9	19	21	40			40
L	Dense yellowish white fine to medium									lium sub							
																++-	4
10.00	PT Where full 0.3m penetration has not been achieved D - Disturbed Sample N - Natu																
SPT	the number of blows for the quoted penetration SS -SPT Sample L - Atter										ure Co	ntent	C - Cor	nsolidat	ion	Remarks I	ogged By :
	the number of blows for the quoted penetration SS -SPT Sample L - Atter is given (not N-value) W - Water Sample G - Grain GWL: Ground Water Level observed inside the WS-Wgrey Sample SG -Speci										nit Test		UCT-U	Inconfir	ed Compression	Existing	J.R.M.Sashikala
GWL	GWL : Ground Water Level observed inside the WS-Wgrey Sample SG-Speci Borehole, after the saturation UD- Undisturbed Sample B - Bulk											t			ated Undrained dated Undrained	ground level	upervised By:
NE	Borehole, after the saturation UD- Undisturbed Sample B - Bulk 1  NE Not Encountered CS- Core Sample V - Vane  HB - Hammer Bounce Cr - Core Recovery (%)												1	hemical		considered as the zero	Lahiru Drillad Ry
	HB         -Hammer Bounce         Cr - Core Recovery (%)           FD         - Free Down         RQD-Rock Quality Designation (%)									vane Snear T	est			ganic co Sulphat	ntent e Content	level	Drilled By:
FD - Free Down RQD-Rock Quality Designation (%)  Made Ground X×××X Silt Signation (%)  Gravel AAAAA Lat									ΔΔ _				oride C	ontent		Danushka	
~~~	;		rour	ıd	x×2×x							dules		_	Completely Weat	1	
	Cla	ıy				San	u	Organic Matt	er	Silty S	and		$\triangle$	Hi	ghly Weathered	KOCK	Fresh Rock

$\epsilon$	B		E	NGI	NEEF			BORATO VESTIGATI			PVT	() L	ΓD.	NC	62/3, N Katuwa Tel·		ri Lank			rmat N LS-SI-		
Pro	SITE INVESTIGATIONS DIVIS  roject Topographic survey and soil investigation the digital terrestrial television network procession in the digital terrestrial television network procession network processi										the pro				ey or	1	rehole			ВН-	01	
Clie	ient M/s. Yachiyo Engineering Co.Ltd cation Adh.Dhangethi Rig Track Who te of Started 13.12.2015 Drilling Method Rotary															She	eet		2	of		2
Loca	ate of Started 13.12.2015 Drilling Method Rotary ate of Finished 13.12.2015 Casing Diameter 100mm												54m		(	Groun	d Wate	er leve	el l	0.95	m	
Date	of	Star	ted	1							Casing Elevati			15.0	0m	c	oordi	nates	<u> </u>			
Date	01	rın:	sne	a	15.12	.2015	)	Casing Diam	ietei 10	JOHIH	Elevan			i	- 1		Mo	isture C	ontent	- %		
(m)	pu		e e	70	(m)	73		0.11				F		Record	ds -	Į		ed Shea			m <sup>2</sup>	-
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Soil De	scriptic	on			(S	PT)	Ŀ	10 20	30	40 50	) 60	70 8	90	<del>)</del> •
	Sa	Sa.	Sa	Re. lev	De	Le		0 : 0	· D			.5cm	l 5cm	5cm	z			Resistan				•
10.00						·Λ·		Continue f	rom Pag	e i		77	- 22	- 11	$\vdash$	5 1	0 15	20 2	5 30	35	40 4	5
						0		Same as	previo	ous								-1/		+-		
_		D9	SS		10.50	0						6	7	6	13			1	+	+		
11.00	Χ	D	DD		10.50	.0.							l ′		13		<b>4</b> 1:	3		+		
-11.00						V											++		+	+		
			ws			0											+++		$\perp$	+		
_						. ()											$^{\dagger\dagger}$		$\top$	$\top$		
12.00						v	(10.50	)-13.95)m: Me	edium	dense gr	avsih						$\Box$			$\top$		
_	abla	D10	SS			0		fine to mediu				6	7	5	12							
	$\triangle$							ed CORAL SA		-							12					
_	fragments and sea shells    Image: Control of the c																					
13.00																						
_																Ш						
L																Ш						
											4	5	7	12		12	$\perp$					
14.00																12					_	
										of coral	Leand						$\sqcup$					_
_			WS			0		from fine to									1	$\perp$	$\perp$	-		_
								ments amound											_	+		_
15.00							1146	increasi										_	_	-		
	X	D12	SS			0			0 1			5	8	5	13		1:	3	_	+-		-
_	ightharpoonup				15.45													_	-	+		_
							END C	OF THE BOR		E AT 15	5.45m									+		
16.00								DEI	PTH										+	+		
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20.00	Sample Key / Test Key																<u> </u>	<u></u>		$\sqcup$		
SPT	PT Where full 0.3m penetration has not been achieved D - Disturbed Sample N - Natur the number of blows for the quoted penetration SS -SPT Sample L - Atter								Natural Moist	ture Cor	ntent	C - Con	solidatio	n		Rema	rks I	.ogged B	<u>y :</u>	-1		
	the number of blows for the quoted penetration SS -SPT Sample L - Atterl is given (not N-value) W - Water Sample G - Grain								Atterberg Lin	nit Test		UCT-U	nconfine	d Compres		Exist	ing		.Sashika	ala		
GWL	WL : Ground Water Level observed inside the WS-Wgrey Sample SG-Speci Borehole, after the saturation UD- Undisturbed Sample B - Bulk I								Grain Size Ar Specific Grav					ed Undrain ated Undrai		ground	level	Supervise	d By:	_		
	Borehole, after the saturation  E Not Encountered  CS- Core Sample  V - Vane S  - Hammer Bounce  Cr - Core Recovery (%)								Bulk Density			pH - Ch	emical			consid as the	7000		ahiru			
NE HB	D - Free Down RQD-Rock Quality Designation (%)								Vane Shear T	est			anic con Sulphate			leve	±.	Drilled By	<u>v:</u>			
FD	RQD-Rock Quality Designation (%)  Made Ground  XXXXXX Silt  Gravel  AAAA Late												oride Co					Da	nushka			
Made Ground $x \times x \times x$ Silt $200$ Gravel $444$ Later								lules		: Co	mpletel	y Weat	hered R	ock Z	$\preceq$							
-:-:-	Cla	ıy			:::::	Sano	i	Organic	Matter	××	Silty S	and			Hig	hly Wea	thered	Rock		Fres	h Roc	k

6	ŀ		E	NGI	NEEF			BORATORY			PVT	T) L	ΓD.	N	O 62/3, Neelamn Katuwawala, S	ri Lanka.	Format No: ELS-SI-02
					Торо			VESTIGATIONS  ey and soil invest			epar	atory	surv	ev o	Tel: 0114 30		
Pro	_				the di	igital	terrestr	ial television netv							Borenole		BH-02
	ClientM/s. Yachiyo Engineering Co.LtdocationAdh.DhangethiRigTrack WPate of Started14.12.2015Drilling MethodRotaryPate of Finished14.12.2015Casing Diameter100mm											eter	54m	m	Sheet	d Water leve	of 2 el 0.95 m
			rted							Casing			15.0				- 0.93 III
Date	of	Fin	ishe	d	14.12	.2015	5	Casing Diameter	100mm	Elevati	on (1	m)	<u></u>		Coordin	ŀ	_
ш	p		0		(H						F	ield I	Recor	ds		isture Content ed Shear Stren	
Depth (m)	Sa. Cond	NO.	Sa.Type	Reduced level	Depth (m)	Legend		Soil Descrip	otion			(S)	PT)		10 20 30	40 50 60	70 80 <del>0 900</del>
	Sa.	Sa.NO.	Sa.	Red	ре	Leg					5cm	.5cm	5cm	Z		Resistance - Bl	
0.00	7	D1	DS			· - ·V·		Ground lev	el		1.5	1.5	1.5		5 10 15	20 25 30	35 40 45
	Х	Di	D3			V		sh white fine to m		_							
			ws			0	to sub	rounded CORAL		ith rare							
1.00				١.		. 0		coral fragm	ents								
	$\bigvee$	D2	SS	_	1.00	.: · · ·	(1.00-2.0	00)m:Medium den	se yellow	vish white	8	5	10	15			
_	$\triangle$			_		0		coarse sub angula							1	15	
			WS	G.W.L		0	CORA	L SAND with few		arts and							
2.00				at		0		coral fragm	ents								
	Χ	D3	SS	0.95m		.V					5	6	11	17		7	
-			WS			V										ackslash	
3.00			""			0											
	D4 SS (2.00-4.50)m: Timber parts were absorption fragments of sea shells were pres										8	9	14	23			
	fragments of sea shells were pr															23	
																$\bot$	
4.00	ws   \( \begin{align*} \tilde{\partial} \\ \ti																
	4.00 WS C															/	
_	1.00 ws										_	_	_				
5.00	Х	טט	55			0					7	7	6	13	13	3	
-	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$																
	5.00 D5 SS																
						. · · ·										$\perp \mid \lambda \mid$	
6.00						0											$\downarrow \downarrow \downarrow \downarrow \downarrow$
	X	D6	SS		6.00	()	Wash Sa	mple:			22	31	10	41			<b>A</b> 41
- '	$\Box$						37 11					NO SA I	AMPLI	3 			
7.00			ws			0		wish white mediunt to sub rounded CC									
7.00			**5			l V	angulai	seashell fragi		IND WILL							
						0		Z.									
	$\bigvee$	D7	SS		7.50	.V.					24	30	12	42			<b>4</b> 2
8.00	X   D/   SS       /.50   /.:																
																++++-	
-	ws ws Dense of white fine to coarse sub ang									angular to							+++
9.00	Dense offwhite fine to coarse sub ang sub rounded CORAL SAND with sea									seashell							
2.00	D8 ss and coral fragments										22	31	18	49			
																	49
10.00	PT Where full 0.3m penetration has not been achieved D - Disturbed Sample N - Natu															Barrandar III	1 Poor
SPT	the number of blows for the quoted penetration SS -SPT Sample L - Atte													solidati		<u>Remarks</u> <u>I</u>	ogged By :
	the number of blows for the quoted penetration SS -SPT Sample L - Atte is given (not N-value) W - Water Sample G - Grai GWL : Ground Water Level observed inside the WS-Wgrey Sample SG -Spec										nit Test nalysis				ed Compression ated Undrained	Existing	J.R.M.Sashikala upervised By:
GWL	GWL : Ground Water Level observed inside the WS-Wgrey Sample SG -Spec Borehole, after the saturation UD- Undisturbed Sample B - Bulk											t	UU-Un	consoli	dated Undrained	ground level considered	
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НВ	HB -Hammer Bounce Cr - Core Recovery (%) FD - Free Down RQD-Rock Quality Designation (%)												SO <sub>4</sub> <sup>2-</sup> -	Sulphat	e Content	level	Danushka
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(	1		E	NGI	NEEF			BORATORY		•	PVT	() L	ΓD.	N	O 62/3, Neelam Katuwawala, S	Sri Lanka.	Format No: ELS-SI-02
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4.00	sub angular to sub rounded CORAL S with sea shells and coral fragmen (3.45-4.50)m: Water loss was obser																
	ws with sea shells and coral fragmen (3.45-4.50)m: Water loss was obse between this particular depth.															-1/4	
-	with sea shells and coral fragment (3.45-4.50)m: Water loss was obser											_	١,	10		4	
5.00	ws with sea shells and coral fragment (3.45-4.50)m: Water loss was obserbetween this particular depth.											6	4	10	10		
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GWL	GWL : Ground Water Level observed inside the Borehole, after the saturation  Not Encountered  WS-Wgrey Sample UD- Undisturbed Sample B - Bulk CS- Core Sample V - Vane											ı		consoli	dated Undrained	ground level considered	Lahiru
NE	NE         Not Encountered         CS- Core Sample         V - Vane S           HB         -Hammer Bounce         Cr - Core Recovery (%)           FD         - Free Down         RQD-Rock Quality Designation (%)										est		O - Org	anic co	ntent	as the zero level	Drilled By:
FD - Free Down RQD-Rock Quality Designation (%)  Made Ground X×××X Silt Silt Gravel AAAA La														Sulphat oride Co	e Content ontent	IC VCI	Danushka
			rour	ıd	xxxxx	i						lules		<u> </u>	Completely Wear	thered Rock	$\overline{\sim}$
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¥	ENGINEERING & LABORATORY SEI SITE INVESTIGATIONS DIV oject  Topographic survey and soil investigation the digital terrestrial television network											VT	T) L]	ΓD.	N(	O 62/3, Neelan Katuwawala, Tel: 0114	Sri Lanka			mat No: S-SI-02
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	is given (not N-value) W - Water Sample G - Grain WL : Ground Water Level observed inside the WS-Wgrey Sample SG - Speci								Frain Size An	alysis		CU - C	onsolida	ted Undrained	Existi ground	C <sub>11</sub>	pervised			
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Cli	ent							neering Co.Ltd				_	iic oi		Sheet	1	of	2
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Date				d	16.12 16.12			Drilling Method Casing Diameter		Casing Elevati			15.0	0m	Coordinates	<u> </u>		
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SPT	the number of blows for the quoted penetration SS -SPT Sample L is given (not N-value) W - Water Sample G									Natural Moist Atterberg Lin		ntent		solidati nconfin	. 1 C	sting	J.R.M.Sash	nikala
GWI	is given (not N-value) W - Water Sample  GWL : Ground Water Level observed inside the  Borehole, after the saturation UD- Undisturbed Sample									Grain Size An			CU - C	onsolida	ated Undrained groun	d level	pervised By:	;
	Borehole, after the saturation UD- Undisturbed Sample NE Not Encountered CS- Core Sample HB -Hammer Bounce Cr - Core Recovery (%)												pH - Cl	nemical	consi	dered e zero	Lahiru	1
HB         -Hammer Bounce         Cr - Core Recovery (%)           FD         - Free Down         RQD-Rock Quality Designation (									V -	Vane Shear To	est			anic co Sulphat	inent	vel Di	rilled By:	$\dashv$
FD - Free Down RQD-Rock Quality  Made Ground XXXXX Silt Gravel										ΔΔ				oride Co	ontent		Danushl	ka
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Project   Topographic survey and soil investigation for the preparatory survey on the digital terrestrial television network project in the Republic of the decident investigation and the project in the Republic of the decident in the digital terrestrial television network project in the Republic of the decident in the digital terrestrial television network project in the Republic of the decident in the digital television in the decident in	¥	the digital terrestrial television network p										ES (P	VT	) L]	Γ <b>D</b> .	NO	62/3, Neelan Katuwawala, Tel: 0114	Sri Lanka			mat No: S-SI-02
Client	Pro	jec	t	!			grap	hic surv	ey and soil inv	estigation	ı for th					ey or				BH-(	)2
Date of Started	Clie	ent				M/s. \	Yach	iyo Engi	neering Co.Ltd								Sheet				2
Date of Finished   14.12.2015   Casing Diameter   100mm   Elevation (m)	Loca	tio	1			F.Fee	ali										Grou	nd Wate	r leve	l (	).90 m
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3.00																		-	_		
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10   11   18   29   29   29   15   15   15   15   15   15   15   1							0												$\vdash$		
15.00   D12   SS   D12   SS   D13   SS   D14   D15.45   END OF THE BORE HOLE AT 15.45m   DEPTH   DEPTH	_								C										$\vdash$		
15.00   NS		XI	D11	SS									10	11	18	29		$\rightarrow$	29	+	
15.00	14.00	$\overline{}$					()											-	II	+	
15.00   D12   SS   15.45   END OF THE BORE HOLE AT 15.45m   DEPTH   DE				WS														-	H	+	
10.00   10.0	_						0														
10.00   10.0							0											-	_		
15.45 END OF THE BORE HOLE AT 15.45m DEPTH  17.00  18.00  19.00  19.00  19.00  10.00	15.00																	$-\!\!\!\!+\!$			
END OF THE BORE HOLE AT 15.45m  DEPTH  17.00  18.00  19.00  September 19.00  20.00  September 19.03 m penetration has not been achieved  D - Disturbed Sample  N - Natural Moisture Content  C - Consolidation  Remarks    Dozed By :   Dozed B		X	D12	SS			0						11	13	9	22		1 22	2		-
DEPTH  DE	_				•	15.45		ENTE C			T 15 1	_							_		
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the number of blows for the quoted penetration SS -SPT Sample L - Atterberg Limit Test UCT-Unconfined Compression Fyieting J.R.M.Sashikala	SPT	the number of blows for the quoted penetration SS -SPT Sample is given (not N-value) W - Water Sample											tent				P-1-4		J.R.M.	Sashikala	
is given (not N-value) W - Water Sample G - Grain Size Analysis CU - Consolidated Undrained CU - Consolidated Undrained CU - Consolidated Undrained CU - Consolidated Undrained CU - CONSOLIDATE		· · · · _ · _ · _ · _ · _ · _ · _ ·									G - Grain	n Size An	alysis		CU - Co	nsolidat	ed Undrained		Cu		
GWL : Ground Water Level observed inside the WS-Wgrey Sample SG -Specific Gravity Test UU-Unconsolidated Undrained considered	GWL	Borehole, after the saturation UD- Undisturbed Sample										ty Test				ted Undrained	_		T e	nhiru	
	NE         Not Encountered         CS- Core Sample           HB         -Hammer Bounce         Cr - Core Recovery (%)									est		i e		ent		DI					
HB -Hammer Bounce Cr - Core Recovery (%) SO <sub>4</sub> <sup>2</sup> - Sulphate Content level	HB -Hammer Bounce Cr - Core Recovery (%) FD - Free Down RQD-Rock Quality Design  Made Ground X××× Silt See Gravel								1							leve	1	-	wahle-		
	888 8	Made Ground X×××X Silt								ignation (%)	ΔΔΔΔ	Laterit	e Nod	ulec	CI - Ck			othered Do	ock /	Dan	IUSHKä
Clay Sand Organic Matter XX Silty Sand Completely Weathered Rock Fresh Rock										latter					六	=			- L	Fresh	n Rock

Project   Topographic survey and soil investigation for the preparatory survey on the digital restrict id levision motivors. Project in the Republic of Since   1 of 2	$\in$	<b>5</b>	를	F	Inte	LS	& onal	AMI	N mited		52, Bodu	thaku	rufaa	ınu M	Iagu,	bile Hotlin Maafannu , Web: ww	, Ma	1e' 20	0-01, N		ives
Date of Starter   17.12.2015   Drilling Method   Roury   Casing depth   15.00m   Coordinates   17.12.2015   Drilling Method   Roury   Casing depth   15.00m   Coordinates   17.12.2015   Casing Diameter   100mm   Elevation (m)   Coordinates   Monomer Coment   15.00m   Coordinates   Mon		•				the d	igital	terrestri	al television no	estigation etwork pr	for the p	repai	ratory	y surv	ey o	n					
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Ground level	(m)	pu		e.	p	(m)	P		C-:1 D			l I			ds					t/m <sup>2</sup>	
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100   100	0.00	$\overline{}$	D.I	D.C.			· - · · · · · ·		Ground	level		1.5	1;	1;		5 10 15	20	25	30 35	40	45
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Comparison of the control of the c	1.00		١.,		<b>*</b>	1.00	1					$\perp$	_				-	+		+	-
Second Comparison of Second		X	D2	55	<del></del>	1.00		(1.00-2.0	00)m: Medium	dense blac	ckish whit	te 3	5	/	12	A 12	2	+		+	-
CORAL SAND with coral fragments  Dense grayish white fine to coarse sub angular to sub rounded CORAL SAND with abundant amount of medium to coarse sub angular to sub rounded CORAL SAND with sea shell fragments  CORAL SAND with sea shell fragments  CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Dense grayis	F		1	1110			11.	fine to r	nedium sub an	gular to su	ıb rounde	d				++	+	+		+	$\vdash$
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Committee of the summer of those for the summer of the s	2.00				1.20m		٥										+	+		+	$\vdash$
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2 2 13 14 27    Consider the present   Continue to the present   Conti				ws													+	+		+	$\vdash$
grayish white and sea shell fragments were present  Dense grayish white fine to coarse sub angular to sub rounded CORAL SAND with abundant amount of medium to coarse sub angular to sub rounded gravels of coral rock fragments  Dense grayish white fine to medium to coarse sub angular to sub rounded gravels of coral rock fragments  Dense grayish white fine to medium to coarse sub angular to sub rounded gravels of coral rock fragments  To be ss 6,000 Wash Sample:  To be ss 6,000 Wash Sample:  To be ss 7,500 Medium dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  To be ss 9,000 Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  To be ss 9,000 Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  To be ss 9,000 Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  To be ss 9,000 Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea shell fragments  To be sub rounded CORAL SAND with sea sh	3.00		١.,				·V	grayish white and sea shell fragm									+	$\perp$		+	-
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angular to sub rounded CORAL SAND with abundant amount of medium to coarse sub angular to sub rounded gravels of coral rock fragments    Doctor   D		X	D5	SS		4.50	V	Dense	e gravish white	fine to co	arse sub	16	18	17	35		+	+	3	5	$\vdash$
angular to sub rounded gravels of coral rock fragments    17	5.00						٨					h					_			+	
Section   Sect				W.C			·V	abunda	nt amount of m	edium to	coarse sub	,					_			+	$\vdash$
Do   SS	-			ws			V	angular	to sub rounded	gravels of	f coral roc	k								+	$\vdash$
Do   SS   Good   Wash Sample:   17   8   4   12   12   12   12   12   12   13   14   15   15   15   15   15   15   15							٨		fragme	ents							$\times$			+	
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Grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  D7 SS 7.50		Х	Do	22		6.00	V	w asii sa	inpie.			17	ı			<b>4</b> 1:	2			+	$\vdash$
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fragments    SS	7.00			we			V .										$\neg$			$\top$	
Medium dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments    Section 200	7.00			***5			V	sub rour			ii sea siici	1									
Medium dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  D8 SS  9.00  Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  SPT Where full 0.3m penetration has not been achieved the number of blows for the quoted penetration is given (not N-value)  WS-Wgrey Sample WS-Wgrey Sample WS-Wgrey Sample Borchole, after the saturation NE Not Encountered Borchole, after the saturation NE Not Encountered BN - Hammer Bounce CG- Core Recovery (%) FD - Free Down  Made Ground  Medium dense grayish white fine to medium sub angular to sub rounded CORAL SAND With sea shell fragments  N - Natural Moisture Content L Atterberg Limit Test GG - Grain Size Analysis SG-Specific Gravity Test B- Bulk Density V - Vane Shear Test O - Organic content UU-Unconsolidated Undrained pH - Chemical ground level considered as the zero level SG-Suphate Content CT - Cloride Content UU-Unconsolidated Undrained pH - Chemical as the zero level SG-Sc - Suphate Content CT - Cloride Content UU-Unconsolidated Undrained pH - Chemical as the zero level SG-Sc - Suphate Content CT - Cloride Content CT - Core Recovery (%) CT - Core Recovery (%) AAAAA Laterite Nodules Completely Weathered Rock							٨		nugin	ones.											
Medium dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments  SPT Where full 0.3m penetration has not been achieved the number of blows for the quoted penetration is given (not N-value)  GWL: Ground Water Level observed inside the Borehole, after the saturation  NE Not Encountered  NE Not Encountered  Hammer Bounce  CS- Core Sample  CS- Cor	-	7	D7	22		7.50	V .					<b>+</b>	8	6	14					T	
Medium dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments   SS   9,00	8.00	X		55		7.50	V					'			1	,	14				
with sea shell fragments    SS	<u> </u>						.0														
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Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments    Loose grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shell fragments    Sea Shell fragments   Sea Shell fragment	-						V		with sea shell	fragment	S										
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Sea shell fragments    N - Natural Moisture Content the number of blows for the quoted penetration is given (not N-value)   WS		$\triangle$					V									1 6					
Remarks   Logged By:	-			ws				angular t			SAND wit	h									
SPT   Where full 0.3m penetration has not been achieved the number of blows for the quoted penetration is given (not N-value)   W - Water Sample   W - Consolidated Undrained   UU-Unclossolidated Undrained   UU-Unconsolidated Undrained   UU-Unconsolidated Undrained   UU-Unconsolidated Undrained   UU-Unconsolidated Undrained   UU-Unconsolidated Undrained   W - V - V - V - V - V - V - V - V - V -	10.00						0		sea shell fr	agments											
the number of blows for the quoted penetration is given (not N-value)  W - Water Sample W - Water Sample G - Grain Size Analysis G - Grain Size Analysis CU - Consolidated Undrained UU- Unconsolidated Undrained UU- Undisturbed Sample V - Vane Shear Test SQ <sub>2</sub> <sup>2</sup> - Sulphate Content UC- Core Recovery (%) RQD-Rock Quality Designation (%)  Made Ground  X X X X Silt  SQ <sup>2</sup> Gravel  Completely Weathered Rock	a		_								I.v. v-						Re	marks_	Logged	By:	
is given (not N-value)  W - Water Sample WS-Wgrey Sample UD- Undisturbed Sample Borehole, after the saturation  NE Not Encountered HB - Hammer Bounce FD - Free Down  Made Ground  W - Water Sample WS-Wgrey Sample UD- Undisturbed Sample UD- Vane Shear Test O - Organic content SQ <sub>4</sub> <sup>2-</sup> - Sulphate Content CT - Cloride Content  CT - Cloride Content  Chaminda  Chaminda	SPT				-				-								_			Lahirn	
Ground Water Level observed inside the Borehole, after the saturation   WS-Wgrey Sample   SG-Specific Gravity Test   UU-Unconsolidated Undrained pH - Chemical   Considered as the zero   Lahiru		is g	given (	not N-	-value)				W - Water Sample		G - Grain Size	Analysis		CU - C	onsolida	ted Undrained		_	Supervi		
NE Not Encountered  CS- Core Sample  Cr - Core Recovery (%)  RQD-Rock Quality Designation (%)  Made Ground  X X X X Silt  CS- Core Sample  V - Vane Shear Test  O - Organic content  SQi <sup>2</sup> - Sulphate Content  CT - Cloride Content  CT - Cloride Content  CT - Cloride Content  Completely Weathered Rock	GWL						e the						st			lated Undrained	_			Lobies	
HB -Hammer Bounce   Cr - Core Recovery (%)   SO <sub>1</sub> <sup>2</sup> - Sulphate Content   level   Chaminda	NE				uic satura	HOII								1		ntent			Drilled		
Made Ground $\begin{bmatrix} \times \times \times \times \\ \times \times \times \end{bmatrix}$ Silt $\begin{bmatrix} 2 & 0 & 0 \\ 2 & 0 & 0 \end{bmatrix}$ Gravel $\begin{bmatrix} 2 & 0 & 0 \\ 2 & 0 & 0 \end{bmatrix}$ Laterite Nodules $\begin{bmatrix} 2 & 0 & 0 \\ 2 & 0 & 0 \end{bmatrix}$ Completely Weathered Rock					ce		Cr - Core Recovery (%) RQD-Rock Quality Designation (%)							SO <sub>4</sub> <sup>2</sup>	Sulphate	Content	1	evel			1.
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	is given (not N-value)						W - Water Sample	G -	Grain Size An	alysis		CU - Co	onsolidat	ed Undrain	ned		sting d leve	Supervi	sed By:	_
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is given (not N-value)  W - Water Sample G - Grain Size WS-Wgrey Sample Borehole, after the saturation UD- Undisturbed Sample B - Bulk Densi Not Encountered CS- Core Sample V - Vane Shear - Hammer Bounce Cr - Core Recovery (%)								t			ed Undrair ated Undra		groun		Superv	ised By			
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L	$\sim$			G.W.L		()	Off whi	te fine to medium	sub angu	lar to sub		NO SA	MPLI	3		3			
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OF I					n nas not b he quoted			SS -SPT Sample	L.	<ul> <li>Natural Moist</li> <li>Atterberg Lin</li> </ul>		nent			on ed Compressi	on Ex	isting	1	.ahiru
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	4				0										32	
					V	Dense grayish white fine to n	nedium sub									
		ws			·: n: -	angular to sub rounded CORAI										
	D11 SS WS D12 SS			.0.	coral rock fragment											
	ws		V	oorar room raginom									$\Box$			
			۸			1.4	16	10	34							
D12 SS		0::			14	16	18	34				3.	1			
_	15.45			A T 15 45												
				END OF THE BORE HOLE	AT 15.45m											
					DEPTH											
																+
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		1											-			$\perp$
		1														$\perp$
1		1														$\perp$
		1														$\perp$
,																
Where full 0.3m penetral			I .	Sample Key / Test Key								Remarks	Logged	By:		
						eved D - Disturbed Sample	N - Natural Moist			C - Con						
	the number of blows fo is given (not N-value)		r the quoted	penetratio	on SS -SPT Sample W - Water Sample	L - Atterberg Lin G - Grain Size An					ed Compressi ted Undraine	.   '	Existing	Superv	Lahiru ised By:	
: Ground Water Level of Borehole, after the satu		served inside	e the	WS-Wgrey Sample	SG -Specific Grav		t			ted Undrained lated Undrain	gro	ound lev	eı	ocu Dy.		
				UD- Undisturbed Sample	B - Bulk Density			pH - Ch	emical		cc	onsidere s the zer		Lahiru		
Not Encountered					CS- Core Sample Cr - Core Recovery (%)	V - Vane Shear To	est		O - Org			as	level	O <u>Drilled</u>	By:	
-Hammer Bounce - Free Down			NO.			Cr - Core Recovery (%)  RQD-Rock Quality Designation (%)				SO <sub>4</sub> - S	-	Content		,		Danushka
∑ M	ade (	Groun	ıd	x××××	Silt	% Gravel	ΔΔΔΔ ΔΔΔΔ Laterit	e No	dules	(J-X)-	_	ompletely	Weather	ed Rock		1
=	lay				Sano		× × Silty S		-	杰	=	hly Weath			. ~	esh Ro
_	)				. ~~~											

4	<b>,</b>	륈	5	<b>E</b>	LS rnatio	& A	AMI	IN mited	52,	Bodutha	akur	ufaar	ıu M	agu, Ì	Maafan	ine: 790 6 nu, Male ww.elsan	20-0			es.
Pro	jec	t			the d	igital		ey and soil invest ial television netv	igation fo	r the pre	para	atory	surv			hole No		ВН-		
Clie	enf				Mald M/s.	ives Yach	ivo Engi	neering Co.Ltd							Shee	t	1	of	;	2
Loca					L.Gai	n		Rig	Track Wl				54m	m		ound Wat	er lev	/el	0.80	m
Date					29.02			Drilling Method		Casing			15.0	0m	Co	ordinates		_		
Date	of	Fin	she	d	29.03	.2016	5	Casing Diameter	100mm	Elevati	on (1	n)					_ـــــــــــــــــــــــــــــــــــــ			
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Soil Descrip	otion		F		Record PT)	ds –	Un	Moisture C drained Shea 30 40 5		ngth - t	/m²	10
	Sa.	Sa.ì	Sa.	Red leve	De	Leg					.5cm	15cm	15cm	z		SPT Resista			_	<b>_</b>
0.00	$\vdash$							Ground lev	el		15	15	15	-	5 10	15 20	25 30	35	40	45 T
-	X	D1	DS WS	•	0.00	0	-	white fine to med	AND with	-										
1.00				<u> </u>		. 0		fragment	ts								$\Box$			
_	$\nabla$	D2	SS	G.W.L	1.00						3	5	3	8			$\Box$			
-	$\triangle$		WS	at 0.80 m		0.0		off white fine to m rounded CORAL	SAND wit	_					18					
2.00			***5	0.00 111		V		fragment						+		$\vdash$			-	
2.00	X	D3	SS		2.00	0					6	8	7	15		15				
<b>-</b>			ws			V											$\Box$			
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	$\nabla$	D4	SS			. 0					9	13	14	27						
	$\triangle$					v											<b>)</b> 27			
_						0														
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ļ '	abla	D6	SS				_	to sub rounded CC			12	10	10	20						
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						. 0								l		+++	$\vdash$	-		-
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	IX	D8	SS			V					10	11	9	20 –		20				-
_	$\vdash$					Į. V								l	+	+/-	$\vdash$	_		
			WS			0										/	$\vdash$			
10.00						'V·[ ]										Rema	rke	Logged E	lv ·	_
SPT	Whe	re full	0.3m j	penetration	n has not be	een achie	eved	D - Disturbed Sample	N -	Natural Moist	ure Con	itent	C - Con	solidation		Keffia	<u>. no</u>	Loggeu I	· <u></u>	
1				lows for ti value)	he quoted p	penetrati	on	SS -SPT Sample W - Water Sample	L -						Compressio	EXIS	-		ahiru	
GWL					rved inside	e the		WS-Wgrey Sample		Grain Size An -Specific Grav					d Undrained ed Undraine	ground		Supervise	л Бу:	-
NE				the saturat	ion			UD- Undisturbed Sample		Bulk Density	201		pH - Ch			consider as the			ahiru	
NE HB		Encour mmer	ntered Bound	e				CS- Core Sample Cr - Core Recovery (%)	V -	Vane Shear To	USI			anic conte Sulphate C		lev		Drilled B	у:	
FD	- Fr	ee Dov	vn					RQD-Rock Quality Designa		A al				oride Cont	ent			Da	mushka	ı
$\times\!\!\times\!\!\!\times$			rour	d XXXXX Silt Soo Gravel							e Noc	lules		<u>∴</u> Co	mpletely '	Weathered R	.ock			
-:-:-	Cla	ıy			Sand Organic Matter								<u> </u>	High	ly Weath	ered Rock		Fres	h Ro	ck

			_	Inte		Tel/ Fa 52, Boc Email:  Topographic survey and soil investigation for the the digital terrestrial television network projecct						@els	samir				:b: v	wwv	v.el	san	in.	com.	mv	aive	es.
Proj	jec	t														n	Bor	ehol	e N	O		В	H-0	2	
Clie									g Co.Ltd							Š	She				2		of		2
Loca					L.Gar			Rig		Track Wh				54m			G	roun	ıd V	Vate	er le	vel	0	).80 i	m
Date				1	29.02				ng Method		Casing	-		15.0	0m		Co	ordi	inat	es	<u> </u>				
Date	10	rın:	sne	u	29.03	.2016	)	Casin	g Diameter	TOOMIN	Elevati	T È		i	_	!		M	oisti	ire C	onte	nt - %	_		
(m)	pu		e	T.	(m)			,				F		Recor	ds		U					ength	- t/m	1 <sup>2</sup>	•
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		2	Soil Descri	ption			(SI	PT)		10		30			0 60		80	90	•
	Sa	Sa.	Sa	Red lev	De	Le		-		D 1		15cm	.5cm	.5cm	Z							Blows	_		_
10.00	_				10.00	·Λ·		C	ontinue from	Page I		1.5	1;	1;		5	10	15	2	) 2	25 3	0 35	40	45	_
_					10.00	0			same as pre	evious													1	$\pm$	
ſ	ΧI	D9	SS		10.50	0	Wash Sa	mple:				3	2	6	8		A						_	_	_
11.00	$\stackrel{\prime}{+}$					0							NO SA	MPLI	Ξ			$\stackrel{\circ}{\Box}$					4	_	_
										hite fine to								$\lambda$					4	4	_
_			WS			0	sub angu			ed CORAL	SAND							$\rightarrow$				_	4	_	
						. ()			with sea sh	nells									$\rightarrow$			_	4	4	_
12.00	_																_			$\overline{}$			$\perp$	4	_
ſ	ΧI	D10	SS		12.00	0						10	14	13	27		_					-	4	4	
_	$\stackrel{\prime}{+}$					. : ()	Medium	dense	oravich w	hite fine to	medium						_				11		$\perp$	4	_
										ed CORAL							_				$\perp$		+	+	_
13.00			WS			()											_	-	_		$-$ \	-	+	+	_
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- k						· · · ·	with sea shells  Dense grayish white fine to medium subangular to sub rounded CORAL SAND wisea shells					ļ						-	_			$\vdash$	+	+	_
	ΧI	D11	SS		13.50	-  -  -		<del>-</del>				12	15	17	32		-	-	_			32	+	+	_
14.00						0	Dense gravish white fine to medium sub										-	-	_			+	+	+	_
																-	-	_			+	+	+	_	
_			WS			0.	angular to sub rounded CORAL SAND with										-	-	_			+	+	+	_
						0	Ü	angular to sub rounded CORAL SAND with									-	-	_			+	+	+	_
15.00							sea shells										-	$\rightarrow$	_			+	+	+	_
	XΙ	D12	SS			0		END OF THE BORE HOLE AT 15.45m				14	16	18	34			-	_			1 3	34	+	_
- ľ					15.45		ENID C	END OF THE BORE HOLE AT 15.45m DEPTH								-	-	_			_	+	+	_	
							ENDC															+	+	_	
16.00																						+	+	_	
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20.00																								ᆜ	
SPT	When	e full	0.3m =	enetration	n has not be	en achie	eved		Sample Key / Tes irbed Sample		Natural Moist	ure Cor	ntent	C - Con	solidati	on				Rema	rks	Logge	d By	:	
					ne quoted p			SS -SPT S			Atterberg Lin			UCT-U			pressi	on		Exist	ing		Lal	hiru	
CMI	_		not N-					W - Wate			Grain Size Ar			CU - Co							leve	Super	vised	By:	_
JWL :				evel obse. the saturat	rved inside ion	те			ey Sample isturbed Sample		Specific Grav Bulk Density	ny Test	ı	UU-Un pH - Ch		iated U	uarain	ea			lered		Lal	hiru	
	Not E	Encou	ntered		CS- Core Sample V - Vane Shear					est		O - Org	anic co				as	the lev	zero el	Drille			_		
HB			Bounc	e	Cr - Core Recovery (%)  RQD-Rock Quality Designation (%)							SO <sub>4</sub> <sup>2-</sup> - 5	-		nt			iev	CI		Doni	ushka			
FD	- Fre	e Dov	vn								$Cl_{-}Cr$	oride C	ntent												
			roun	d	×××××	Silt		RQD-Roc			Laterit	e Noc	dules	Cl' - Clo		ontent	etelv	Wea	ther	ed R	ock		7	- Indiana	

(	B		E	NGI	NEEF			ABORATORY VESTIGATIONS		•	PVT	') <b>L</b> T	ΓD.	No	O 62/3, Neelamn Katuwawala, S	ri Lanka.	Format No: ELS-SI-02
Pro	jec	:t				grap	hic surv	ey and soil investi ial television netw	igation fo	or the pre				ey o	Tel: 0114 30  Borehole		BH-01
Cli	ent							neering Co.Ltd					C 01		Sheet	1	of 2
Loca	atio	n			Th.Gเ					heCore D			54m		Ground	d Water leve	l 0.70 m
Date Date				J	25.02 25.02			Drilling Method Casing Diameter		Casing Elevati			15.0	0m	Coordii	nates	
		ГШ	SHE	u	Ì	.2010	) 	Cashig Diameter	10011111	Elevan			<u>i</u>	1	Mo	isture Content -	- %
(m)	puo	·	/pe	pa	(m) r	pι		Soil Descrip	tion		F		Recor PT)	as		ed Shear Streng	
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Son Bestrip							10 20 30 SPT I	40 50 60 Resistance - Blo	70 80 <del> 90 </del> ows/ft
0.00	0,	5	01	F		I		Ground leve	el		15cm	15cm	15cm	Z	5 10 15	20 25 30	35 40 45
	M	D1	DS		0.00	1	Gravish	white fine to medi	ium suh a	moular to							
L	$\vdash$			<b>*</b>				ounded CORAL SA									
			WS	Ė		0		fragment									
1.00	$\vdash$	D2	SS	G.W.L	1.00	- 0					3	3	4	7			
	X	DZ	33	at	1.00	0		grayish white fine			3	3	4	′	<b>+</b> 7		
_			ws	0.70 m		.0	angular t	to sub rounded CC		ND with							
2.00						<b>.</b>		coral part	S								
	$\nabla$	D3	SS		2.00	0					3	4	6	10			
L	$ ule{}$					0									10		
			WS			. ^											
3.00						, Un.											
	X	D4	SS			0					3	4	7	11	11		
-						0,											
4.00			ws			· · · · · · · · · · · · · · · · · · ·											
L						0	Medium	dense grayish whi	ite fine to	o medium							
	V	D5	SS			0		ular to sub rounde			6	7	7	14		4	
5.00	$\vdash$							oral fragments; (3.								<u> </u>	
			****			0	rock	samples of (5-8)cr	n was ob	served							
_			WS			V											
6.00						0											
<u>-</u>	$\nabla$	D6	SS			. v					6	6	4	10			
	$\triangle$					v									10		
Г						0											
7.00			WS			- ()											
_	7	D7	SS		7.50	1					4	4	4	8	8		
8.00	X	D/	33		7.30	()					4	4	4	0			
<u>=</u> .00								grayish white fine									
			ws			0	angular	to sub rounded CC		ND with							
						0		coral part	3							+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	
9.00	L					Α										++	
	IX	D8	SS		9.00	V	Dense of	ff white fine to m	edium su	b angular	18	18	20	38			38
-	$\vdash$		ws			V		rounded CORAL S		_							
10.00			ws.			0		fragment	s								
											<u> </u>			I		Remarks Lo	ogged By :
SPT			-		n has not be			D - Disturbed Sample SS -SPT Sample		<ul> <li>Natural Moist</li> <li>Atterberg Lin</li> </ul>		itent		solidati nconfin	ion ned Compression	Dwintin -	Lahiru
O***-	is g	given (	not N-	value)				W - Water Sample	G	- Grain Size An	alysis		CU - C	onsolida	ated Undrained	Existing ground level	pervised By:
GWL				Level obse the saturat	rved inside ion	the		WS-Wgrey Sample UD- Undisturbed Sample		G-Specific Grav Bulk Density	ity Test		UU-Un pH - Ch		dated Undrained	considered	Lahiru
NE HB		Encou	ntered Bound	ne.				CS- Core Sample Cr - Core Recovery (%)	V.	- Vane Shear T	est		O - Org			as the zero level	rilled By:
нв FD		mmer ee Dov						RQD-Rock Quality Designat						Sulphat oride Co	e Content ontent	-3,0.	Danushka
	:	de Ground $\begin{bmatrix} \times \times \times \times \times \\ \times \times \times \times \end{bmatrix}$ Silt $\begin{bmatrix} \circ \circ \circ \\ \circ \circ \circ \end{bmatrix}$ Gravel $\begin{bmatrix} \Delta \Delta \Delta \Delta \\ \Delta \Delta \Delta \Delta \end{bmatrix}$ Laterite								lules		<u>:</u> 0	Completely Weat	hered Rock	$\forall$		
-1-1-1	Cla	ıy	Sand Organic Matter Silty Sa								and			Hig	ghly Weathered l	Rock	Fresh Rock

$\epsilon$	B		E	NGI	NEEF			BORATORY VESTIGATION		•	PVT	(i) L	ΓD.	NO	O 62/3, Neelam Katuwawala,	Sri Lanka			mat No: S-SI-02
Pro	jeo	et				grap	hic surv	ey and soil invest	tigation f	or the pr				ey o	Tel: 0114 3			BH-(	)1
Cli	-							neering Co.Ltd	vork pro	ject in th	e Ke	publi	ic 01		Sheet		2	of	2
Loca	atio	n			Th.Gu			Rig	Track W	heCore D	Diamo	eter	54m	m		nd Water			0.70 m
Date	of	Sta			25.02			Drilling Method		Casing			15.0	0m	Coord	inotos		_	
Date	of	Fin	ishe	d	25.02	.2016	5	Casing Diameter	100mm	Elevat	ion (1	m)	<u> </u>			i			
m (m	Ę.		4)		ш						F	ield I	Recor	ds		oisture Co ned Shear			m <sup>2</sup>
Depth (m)	Sa. Cond	Ģ.	Sa.Type	Reduced level	Depth (m)	Legend		Soil Descrip	otion			(S)	PT)		10 20 30	40 50		70 80	90●
	Sa.	Sa.NO.	Sa.	Red leve	Del	Гев					15cm	15cm	.5cm	Z		Resistanc			
10.00								Continue from	Page 1		15	15	15	_	5 10 15	20 25	30	35 4	0 45
					10.00	0												+	
_																-	_		
	IX	D9	SS			0					18	19	22	41		-			41
11.00		1				0		Same as pre	vious							$\rightarrow$	_	$\perp A$	
								•								-	+	$\langle \cdot  $	
_			WS			0											$\times$	-	
						V											$\leftarrow$		
12.00	7	D10	SS		12.00	Λ					12	8	10	18					
	X	DIO	22		12.00						12	8	10	18		18	_	+	
-						γ0.n:													
13.00			ws			0										1	+		
13.00			5			.v.										$-\Lambda$			
						V		dense fine to med											
-	$\nabla$	D11	SS			0		nded CORAL SA			14	10	13	23					
14.00	Ň					0		ll fragments; (12.				10				2	.3		
						V	cc	oral rock fragment	ts of (5-6)	cm									
			ws			0													
_						· · · · · · ·										71 1			
15.00						V													
_	$\nabla$	D12	SS			n :					12	8	6	14					
	$\triangle$				15 45										<b>^</b>	14			
					15.45 END OF THE BORE HOLE AT 15.45m														
16.00																			
L																		$\perp$	
17.00																-	_	-	
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20.00																			
20.00				<u> </u>	<u> </u>			Sample Key / Test	t Key				1			Remar	ks Lo	ogged By	/:
SPT					n has not be			D - Disturbed Sample		- Natural Mois				nsolidati			j	Y	shims
				olows for th value)	ne quoted p	enetrati	OIL	SS -SPT Sample W - Water Sample	L G	<ul> <li>Atterberg Lin</li> <li>Grain Size A</li> </ul>					ed Compression ated Undrained	Existi	Sı	La pervised	hiru l By:
GWL	: Gr	ound V	Water I	Level obse	rved inside	the		WS-Wgrey Sample	so	G-Specific Grav		t	UU-Un	consoli	dated Undrained	ground l conside	ievei –		
NE		rehole Encou		the saturat	ion			UD- Undisturbed Sample CS- Core Sample		<ul> <li>Bulk Density</li> <li>Vane Shear T</li> </ul>	'est		pH - Ch O - Org	nemical ganic co	ntent	as the z	oro L	La rilled By	thiru :
NE HB FD	-Ha	mmer	Bound	ce				Cr - Core Recovery (%)					SO <sub>4</sub> <sup>2</sup>	Sulphate	e Content	leve			
FD XXX	_	ee Do		vd.	× <sub>××</sub> ×	C:14		RQD-Rock Quality Designa		ΔΔΔ			Cl' - Cl	oride Co		4 15	,	Dan	ıushka
	•	Iade Ground						<u> </u>	Lateri		aules		7	ompletely Wea		ck 🖊	Eraal.	Dog!r	
	Cla	ay	Sand Organic Matter Silty Sa						and		$\triangle$	$\mathcal{I}_{H^{I^{g}}}$	ghly Weathered	KOCK		rresh	Rock		

(	13		E	NGI	NEEF			BORATORY		•	PVT	() L	ΓD.	N	O 62/3, Neelam Katuwawala,	Sri Lanka.	Format No: ELS-SI-02
Pro	jec	:t			_	grap	ohic surv	VESTIGATIONS  ey and soil invest  ial television netv	igation fo	or the pre				ey o	Tel: 0114 3		BH-02
Cli	enf							neering Co.Ltd	vork proj	ject in the	e Kej	publi	C 01		Sheet	1	of 2
Loca	atio	n			Th.Gu	ıraid	hoo	Rig	Track W				54m		Grour	nd Water le	vel 0.65 m
Date				J	26.02			Drilling Method Casing Diameter		Casing Elevati			15.0	0m	Coord	inates	
	01	ГШ	isne	a	26.02	.2010	) 	Casing Diameter	10011111	Elevati			<u>i</u>	1	M	oisture Conte	nt - %
h (m	ond	).	ype	pa	h (m	pu		Soil Descrip	otion		Γ.		Recor PT)	us		ned Shear Stre	Ü
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		ж ж г			u			ı	10 20 30 SPT	40 50 60 Resistance - I	
0.00	<u> </u>	0,1	01	I I				Ground lev	el		15cm	15cm	15cm	Z	5 10 15	20 25 3	35 40 45
	X	D1	DS		0.00	0	Gravish	white fine to med	ium sub a	ngular to							
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2.00	Ĺ,							with corar p									
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_						0.									++++		
5.00	Х	D5	SS		4.50	0.0					9	6	8	14	<b>\</b>	14	
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				lows for th value)	ne quoted p	enetrati	on	SS -SPT Sample W - Water Sample		<ul> <li>Atterberg Lin</li> <li>Grain Size An</li> </ul>					ed Compression ated Undrained	Existing	Lahiru Supervised By:
GWL	: Gre	ound V	Vater I		rved inside	the		WS-Wgrey Sample UD- Undisturbed Sample	SG	- Specific Grav				consoli	dated Undrained	ground level considered	Lahiru
NE	Not I	Encou	ntered		ЮП			CS- Core Sample		- Bulk Density - Vane Shear To	est		O - Org	anic co	ntent	as the zero	Drilled By:
HB FD		mmer ee Dov	Bounc wn	e				Cr - Core Recovery (%) RQD-Rock Quality Designa	ation (%)					Sulphatoride Co	e Content ontent	level	Danushka
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$\epsilon$	B		E	NGIN	NEEF			BORATOI VESTIGATIO			VT	C) L	ΓD.	N(	O 62/3, Neelar Katuwawala Tel: 0114	, Sri Lanka			rmat N .S-SI-		
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Loca	atio	n			Th.Gเ			Rig			Core D			54m		Grou	nd Wate	er leve	:1	0.65	m
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Date	01	rın	sne	a	26.02	.2010	)	Casing Diame	ter 10011	1111	Elevan			<u>i</u>	1		Aoisture C	ontent	- %		
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NE HB		Encour mmer	ntered Bounc	e				CS- Core Sample Cr - Core Recovery (%	6)	V - V	/ane Shear To	est			ganic cor Sulphate	tent Content	leve	<u> </u>	rilled By	<u>/:</u>	_
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-1-1-1	Cla	ıy							Silty S	and			Hig	ghly Weathere	d Rock		Fresl	h Roc	k		

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F						V	to su	ib rounded CORAI	L SAND w	vith						$\perp$	+			
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1.00				<b>*</b>		٠٧٠ ِ .						Щ		Щ			-			
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			ws					um dense off white												
3.00						0	COR	RAL SAND with co	oral fragm	ents										
	7	D3	SS		3.00	· : 10:					7	4	4	8						
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4.00			***5			. V		coral rock frag	ments						++++	+	+			
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5.00						٨	Mediur	n dense grayish wh	nite fine to	coarse					<del>                                     </del>	+	+			
			XX/C			V	sub ang	ular to sub rounded	CORAL	SAND						+	+			
-			WS			0	with sea	shell fragments an	nd coral fra	agments					+	+	+			
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6.00						0.									+	+	+-			
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L	$\sim$					, v		off white fine to m			]	NO SA	AMPLI	E  -		-	+			
			WS			۸ :	to sub 1	rounded CORAL S	AND with	n coral						-	+			
10.00						۱۷۰ <u>.</u> .	rock	fragments and sea	shell fragn	nents				L						
SPT	Whe	re full	0.3m	nenetratio	n has not be	een achi-	eved	D - Disturbed Sample	N - N	Natural Moist	ure Cor	ntent	C - Co-	nsolidation		Remarks	Log	gged By	<u>y</u> :	
51.1					he quoted p			SS -SPT Sample		Atterberg Lin					Compression	Existing	,	L	ahiru	
O***-				value)				W - Water Sample		Grain Size An					d Undrained	ground le	Cvia	pervised	lBy:	
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NE			ntered	sauurd				CS- Core Sample		Vane Shear To	est		1	ganic conte	ent	as the zer	ro <u>Dri</u>	lled By		_
HB FD		mmer	Bound	ce				Cr - Core Recovery (%)	ion (0/)					Sulphate C		level	Г	Ch	minda	
888	_		<sub>wn</sub> Grour	nd	×××××	Silt		RQD-Rock Quality Designati	ΔΔΔ ΔΔΔ	A Laterit	e No	dulas	CI - Cl	oride Cont	mpletely Wea	thered Post			amma	
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Proj		t			the d Mald	igital ives	hic survey and soil investigation terrestrial television network pr		epar	atory		ey o	Bore	ehole No		ВН-	-01
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oca Oate			ad		Th.G:			eel Core D Casing			54m 15.0				ī	vei	1.10 n
ate					31.12						13.0	OIII	Co	ordinates	<u> </u>		
œ l							1 5				Record	le .	•	Moisture			
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Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Dept	Legend	-		В			-	10 20	SPT Resista			t
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T	V.	£ 11 -	2		- 1-		Sample Key / Test Key	NI NI TOTAL			C C	111		Ren	narks	Logged I	Зу:
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	is gi	ven (no	t N-v	alue)			W - Water Sample	G - Grain Size An	alysis		CU - Co	onsolida	ed Undraine	d groun	sting id level	Supervise	
VL :				evel obs	erved inside	e the		SG -Specific Gravi B - Bulk Density	ity Test		UU-Un pH - Ch		ated Undrain	ed	idered		Lahiru
	nore			e satura	atiOII			B - Bulk Density V - Vane Shear To	est		pH - Ch O - Org		tent		e zero		
E 1	Not E	ncount															
1	-Han	nmer B	ounce				Cr - Core Recovery (%)					Sulphate	Content	le	evel		
13()	-Han - Free		ounce		X. ↓ ×	Silt	Cr - Core Recovery (%)  RQD-Rock Quality Designation (%)	ΔΔΔΔ ΔΔΔΔ Laterit				Sulphate oride Co	ntent	Weathered		Ci	haminda

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2.00				1.10m					rai fock fi	agments								$\downarrow$		4		$\perp$	
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[				the satura				UD- Unc	disturbed Sample	:	B - Bu	lk Density			pH - Ch	emical			nside			Lahiru	
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$\rangle\rangle\rangle\rangle$	Ma	ade C	Groun	ıd	×××××	Silt		ૢૺ૾ૺૺૢૺ	Gravel			Laterit	e Nod	lules		Co	mpletely Wea	there	ed Roo	ck		1	
	Cla	ay			::::::	Sano	d	* * * *	Organic M	latter	x x	Silty Sa	and			High	nly Weathered	Roc	k		Fre	sh Ro	ck

Pro				Ir	Tope the d	onal ograp igital ives	private limited blic survey and soil invest terrestrial television net	52, En <b>tigation fo</b> r	Boduth nail: info r the pre	aku @el <b>par</b>	rufaa Isami <b>atory</b>	nu M n.cor <b>surv</b>	Iagu n.m	Borehol	n, Male' 20 w.elsamin	D-01, N com.i	-02	ives
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Loca Date			rted		Th.G 01.01				Casing			15.0			i	evei	1.10	) m
Date				d	01.01				Elevati			_	<b></b>	Coord	linates			
n)	1				n)					F	ield F	Record	ds		Ioisture Conte			_
Depth (m)	Sa. Cond	o.	Sa.Type	peor	Depth (m)	Legend	Soil Descri	ption				PT)		Undrai	ined Shear St		t/m²	90●
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			er of b (not N-		r the quoted	oenetrati	on SS -SPT Sample W - Water Sample		Atterberg Lin Grain Size An					d Compression ed Undrained	Existing	Supervis	Lahiru sed By:	
GWL	: Gı	ound	Water l	Level ob	served insid	e the	WS-Wgrey Sample	SG -	Specific Grav		1	UU-Un	consolid	ated Undrained	ground leve considered	1		_
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нв	-Ha	ammei	Bound	e			Cr - Core Recovery (%)		**			SO <sub>4</sub> <sup>2</sup> 5	Sulphate	Content	level		_	_
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(m)	puo		be	Ę.	(m)	р			Soil Descr	intion			F		Recor	ds	Undrai	ned S	hear St	rengtl	n - t/1	m <sup>2</sup>	
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7.00			ws			- : ()	with co	oral fra	agments; (	6.45-7.50	))m: w	ater						_			_	_	
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1				olows for t -value)	he quoted p	penetratio	on	SS -SPT W - Wat	Sample ter Sample		L - Atte G - Grain	rberg Lin					ned Compression ated Undrained		xisting	Sun	La ervised	ahiru 1 Bv:	
GWL	_				erved inside	e the		WS-Wgr	ey Sample		SG -Spec			t			dated Undrained		und lev nsidere	ei —		<u> </u>	
NE		rehole Encou		the satura	tion				disturbed Sample Sample		B - Bulk	Density Shear To	ect		pH - Cl				the zer		La led By	ahiru	
NE HB			Bound	ce					e Sample e Recovery (%)		v - vane	snear I	USL		O - Org		ntent e Content		level	Dril	eu By	-	
FD XXX	_	ee Do			IX ~ ×				ck Quality Desig	gnation (%)	A A A 4				Cl - Cl	oride C	ontent				Cha	minda	ì
$\bigcirc \bigcirc \bigcirc$	-		rour	nd	x×x×x	Silt		$\overline{}$	Gravel			Laterit		dules		=	Completely Wea			_ T	$\preceq$		
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<u> </u>				Inte	ernatio	onal		52, Boduth Email: info	o@e	lsami	n.cor	n.my	Web: w					ives.
Pro	jec	t				igital	terrestrial television network p					cy oi		ole No		ВН	-01	
Clie	ent						iyo Engineering Co.Ltd						Sheet		2	0	f	2
Loca					Gdh.I			neel Core D	Diamo	eter	54m	m		ound Wate	r lev	/el	1.20	) m
Date	of	Star	ted		29.12			Casing	dep	th	15.0	0m	Coo	rdinates			_	
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î	ъ				î				F	ield F	Record	ds -	** *	Moisture Co			2	_
Depth (m)	Sa. Cond	О.	Sa.Type	Reduced level	Depth (m)	Legend	Soil Description			(SI	PT)	ŀ		rained Shear			t/m 8 <b>●</b>	90●
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10.00							Ground level		15cm	15cm	15cm	Z	5 10	15 20 25	5 30	35	40	45
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						V	Medium dense grayish white fine	to medium							$\sqcup$			
	$\bigvee$	D10	SS			۸	sub angular to sub rounded COR	AL SAND	23	13	15	28			$\perp$			
14.00	$\triangle$					0	with sea shell and coral rock fr	ragments						28	1			
						· : 1):	fragments								Ш			
			ws			ν									Ш			
_						· · · · · · · · · ·												
15.00						V									Ш			
_	$\nabla$	D11	SS						18	10	16	26			Ш			
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					15.45		END OF THE BORE HOLE A'	Γ 15.45m							$\perp$			
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20.00																		
CDT	W.		0.2		. 1		Sample Key / Test Key	N N	6		c	111111	_	Remar	<u>'ks</u>	Logged	By:	
SPT					has not be ne quoted p			N - Natural Mois L - Atterberg Lin				solidatio nconfine	n d Compression	P-i-r	inc	1	Lahiru	
	is g	iven (	not N-	value)			W - Water Sample	G - Grain Size A	nalysis		CU - Co	onsolidat	ed Undrained	Existi ground	-	Supervi		
GWL				Level obse the saturat	rved inside	e the	WS-Wgrey Sample UD- Undisturbed Sample	SG -Specific Grav B - Bulk Density	ity Tes	t	UU-Un pH - Ch		ated Undrained	conside		1	Lahiru	
NE		Encou		aic saturdi			CS- Core Sample	V - Vane Shear T	'est			anic con	tent	as the z		Drilled l		
HB FD		mmer ee Dov	Bounc	e			Cr - Core Recovery (%)					Sulphate		leve	ıl	_	hamind	la.
888 888	_		roun	nd	××××.	Silt	RQD-Rock Quality Designation (%)	∆∆∆∆ ∆∧∆∆ Lateri	te No	dulas	CF - Clo	oride Cor		Veathered Ro	nch.		namind	a
	Cla		Juil		~ × ×	San	<u> </u>	X X Silty S		auics	<del> </del>	=	hly Weathe		,CK	Fre	⊿ sh Ro	ck

	5	昬		Int			AM private li	IN mited	5	Tel/ Fax: - 52, Boduth Email: info	ıaku	rufaa	nu N	Iagu, N	∕Iaafannı	ı, Male	e' 20-	-01, M		ves
Pro	jec	et						ey and soil invest ial television net	tigation f	for the pre	epar	atory	surv	ey on	Boreho			ВН-		
Cli								neering Co.Ltd	_						Sheet		1	of		2
Loca			. 1		Gdh.I			Rig	Track Whe				54m		Grou	nd Wat	er lev	vel	1.15	m
Date Date				4	30.12 29.12			Drilling Method Casing Diameter		Casing Elevati	-		15.0	0m	Coord	inates	-			
	01	ГШ	SHE	u	Ī	.201.	) 	Cashig Diameter	TOOIIIII	Elevati	T Ì		<u>i</u>	.	M	loisture (	Conter	nt - %		_
Depth (m)	Cond		be	ps	Depth (m)	Ъ		Soil Descrip	ntion		F		Recor	ds –		ned She			/m²	_
epth	Sa. Co	Sa.NO.	Sa.Type	Reduced level	epth	Legend		Son Descrip	ption				PT)		10 20 30		50 60		80 9	0
0.00	S	S	S	R. le	Д	7		Ground lev	vel		5cm	5cm	5cm	z	5 10 15	Resistar 20	25 30		_	45
1.00	X	D1	DS WS		0.00	0	-	white fine to med bunded CORAL S fragmen	dium sub SAND wit	-										
2.00	X	D2	SS WS	G.W.L at 1.15m	1.00	0 0		dense off white f to sub rounded Co coral fragm	ORAL SA		2	5	5	10	10		_			
2.00	$\times$	D3	SS WS		2.00		angular t	lense off white fin to sub rounded Co nt amount of cobb coral rock fra	ORAL SA	AND with	10	14	20/H B	>50					>50	
<u>4.00</u>			CS		3.00	00000	Off whi	te highly weather	ed highly	fractured	Cr=	=34%	RQD:	=11%						
5.00	X	D4	SS WS		4.50	0	coarse s	um dense off white sub angular to sub AND with sea she	rounded	CORAL	11	6	5	11	11					
7.00	X	D5	ss ws		6.00	0 0	sub ang	ose grayish white ular to sub rounde oral fragments; (6. loss was obs	ed CORA .45-7.50)	L SAND	7	9	5	14		14				
8.00 - 9.00	X	D6	ss ws		7.50	0 0	angular	grayish white med to sub rounded Co gments;(7.96-9.00 observe	ORAL SA 0)m: wate	AND with	6	7	14	21		2				
10.00	X	D7	ss ws		9.00	0		n dense off white to sub rounded Co coral fragm	ORAL SA		10	8	8	16		16				
SPT	Whe	re full	0.3m r	enetration	has not be	een achi	eved	D - Disturbed Sample	ln	N - Natural Moist	ure Cor	ntent	C - Con	solidation		Rema	<u>irks</u>	Logged F	<u>sy :</u>	
GWL NE	is g : Gre Bo	numb given ( ound V rehole	er of b not N- Vater I	lows for tl value)	ne quoted p	penetrati		SS -SPT Sample W - Water Sample WS-Wgrey Sample UD- Undisturbed Sample CS- Core Sample	L C S B	C - Atterberg Lin G - Grain Size An G -Specific Grav B - Bulk Density V - Vane Shear To	nit Test nalysis ity Test		UCT-U CU - Co UU-Un pH - Ch O - Org	nconfined Consolidated consolidated emical anic conten	d Undrained t	ground consider as the	zero	Supervise	Lahiru	
HB FD		mmer ee Dov	Bounc	e				Cr - Core Recovery (%) RQD-Rock Quality Design	eation (%)					Sulphate Co oride Conte		lev	eı	C	naminda	
888	_		roun	d	×××××	Silt		Gravel		Laterit	e No	dules	(1 - Clo		npletely Wea	thered R	Rock		ammida	
	Cla				* <b>^</b>	San		Organic Mat		Silty S			京	=	y Weathered		.oer	Fres	sh Roc	ck

Pro	jeo	et			Tope the d	onal ograj igita				o@e epar	lsami <b>atory</b>	n.co	m.m ey o	y, Web	annu, : www rehole	v.elsam	20-0 in.c	O1, Macom.n	av	ves
Cli	nf				Mald M/s.		ivo Engi	ineering Co.Ltd						She	eet		2	of	,	2
Loca					Gdh.			Rig Track V				54m	m			l Water			1.15	m
Date					29.12			Drilling Method Rotar				15.0	0m		oordir	nates		_		
Date	to	Fin	ishe	d	29.12	.201	5 T	Casing Diameter 100m	ım Elevat			<u></u>	I			isture Co	ntent	t - %		
(m)	puo		be	p	(m)	р		Soil Description		F	ield I		ds	Į		ed Shear			m <sup>2</sup>	_
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Oepth (m)	Legend		Son Description		_		PT)		10 20		40 50 Resistanc		70 :	80	/0●
10.00	S	S	S	R		1		Ground level		15cm	15cm	15cm	Z	5 1	10 15	20 25			_	45
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1.00						0	Mediun	n dense off white fine to	medium sul	,					-		+	_		
			WS			٨	angular	to sub rounded CORAL	SAND with	Į.						+	+	+		
-			***5			I v 0		coral fragments									+	_		_
12.00						0											$\top$			
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13.00			WS			1										+	+	-		
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14.00	X	Dio	55			0	_	sea shell and coral rock			13					22	$\top$			_
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NE		rehole Encou		the saturat	ion			UD- Und CS- Core	isturbed Sample Sample		B - Bulk I V - Vane S		est		pH - Ch O - Org	emical anic cont	ent	as the zero		La led By:	hiru	
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Ęl	<b>5</b>	륟	듈	Inte	LS	<b>&amp;</b>	AM private li	IN mited			52, B	oduth	akuı	rufaa	nu M	lagu	obile Hotli , Maafanr v, Web: w	iu, M	ale	' 20-	01, N		ives
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CVV				value)		- 41.		W - Water Samp				in Size Ar					ated Undrained			level	Supervi	ised By:	
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NE			ntered	c saturdi				CS- Core Sample				e Shear T	est		O - Org			as		zero	Drilled		
НВ			Bound	ce				Cr - Core Recove	ery (%)						SO <sub>4</sub> <sup>2</sup> 5	Sulphat	e Content		lev	el			
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3.00						0	SA	IND I	with co	oral rock	tragn	nents							$\Box I$				
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<u> </u>						.0	(3.00-4.5	50)m:	: Grair	n size ran	nged fr	om fine to										$\top$	
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<u>5</u> .00			CS			0,0	OH WIII	_	-	AL ROC		ractured	Cr=	=30%	RQD	=00%			+		$\rightarrow$	+	+
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-					5.50	0, 0,	<b>.</b>	1 1	1 ' C'		1' (	CODAL							+			+	+
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SPT	Whe	re full	0.3m p	enetration	has not be	en achie	ved	D - Dist	turbed Sar	mple	1	N - Natural Moist	ture Co	ntent	C - Cor	ısolidati	on		Ken	arks	Logge	1 By :	
					ne quoted p				Γ Sample	•	1	L - Atterberg Lin	nit Test		UCT-U	nconfin	ed Compress	sion	Exi	sting		Lahir	u
GWI	_	-	not N- Vater I		rved inside	the			ater Sampl grey Sampl			G - Grain Size Ar SG -Specific Grav					ted Undrain lated Undrai		groun	d leve	1	vised By	<u>√</u> :
S ", L				the saturat		uic			disturbed			B - Bulk Density	ay res	•		nemical	cu Unuial			idered		Lahir	·u
NE			ntered						re Sample		,	V - Vane Shear T	est			ganic con				e zero vel	Drilled	By:	
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Pro	_				the di	igital	terrestri	al tele	evision ne	twork proj					•	BC	rehol	e No			H-02	
Cli					M/s. Gdh.	Yach	iyo Engi	neerin Rig	g Co.Ltd	Track W	h.l.Com	Diam		54m			eet Groun	. <b></b>	2		of	2 70 n
Loca Date		Stai	rted		14.01				ng Method			ng dep		15.0					- i	evei	U.	/U II
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D XXX		ee Dov		d	X××××	Silt		RQD-Roo	ck Quality Desig	nation (%)	ΔA .	omit - NT	du1.	Cl' - Cl	oride Co		1, 337	ther:	D - 1		Danus	1Ка
××	Cla		Brour	iu	x^x^x	San	d		Gravel Organic Ma			erite No y Sand	aules	炭	_	omplete ghly We	-		Kock	Fı	esh F	łock

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(m)	puo		be	Ę.	(E)	Р			Soil Descr	rintio			F		Recor	ds	Ţ	Jndrair	ned Sh	ear St	rength	ı - t/n	n <sup>2</sup>	
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FD XXX	_	ee Do			]X∪ ×	RQD-Rock Quality Designation (%)									Cl - Cl	oride C	ontent				$\downarrow$	Dani	ushka	
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epth	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	epth	Legend		Son Descrip	HOII			(2	PT)		10 20		40				80	<del>10</del>
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14.00			****			٥V	Very de	ense yellowish wh	ite fine	to medium	ı						+	+	+	+		
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-		D12	SS			- 0	with	ample amount of	hard Co	oral rock							+	+	+	+		
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	is g	iven (	not N-	value)				W - Water Sample		G - Grain Size	Analysis		CU - C	onsolidat	ed Undrain	ed		xistin ınd le	_	Supervis		
GWL				evel obse the saturat	rved inside	e the		WS-Wgrey Sample UD- Undisturbed Sample		SG -Specific Gr B - Bulk Densit		it	UU-Un pH - Cl		ated Undrai	ned	con	sider	ed		Lahiru	
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			****			00	angular	to sub	rounded	COR	AL SAN	ND with									+	+
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===	Cla	ıy			X×××X X×X       Silt       SGravel       AAAA AAAA       Laterite         ∴       Sand       Table 1       Silty Sar								べ	=	hly Weatl				Fre	sh Ro	ck

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Cli								neering Co.Lt		XX 71				1		S	heet		***	1		of	2	2
Locate			tod		Gn.Fi 06.01			Rig Drilling Meth			Core D Casing			54m			Gro	und	wat	er ie	vei	1	10 n	n
Date					06.01			Casing Diame			Elevation			13.0	OIII	-	Coo	rdina	ites	$\vdash$				_
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1.00			5	١.		· · · · · · · · · · · · · · · · · · ·	fra	gments and sea	ı shell fra	gmen	its				ш		_	+				+	+	_
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	Х	] -	55	G.W.L	1.00	0		grayish white				3		_	ľl	1	$ egthanking = \frac{1}{2} \left( \frac{1}{2} \right)^{-1} \left( \frac{1}{$				_	+	+	_
-			ws	at		0.0	angular	to sub rounded		SAN	D with				ш		$\rightarrow$					+	+	_
2.00				1.10 m		v		coral fra	gments						ш		$\top$	$\setminus$				+	+	_
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						Very Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shells and coral fragments										$\top$					+	+	_	
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5.00	Х		55			sub angular to sub rounded CORAL SAND 17 38 >50 with sea shells and coral fragments											$\top$					$\top$	>50	) 4
						sub angular to sub rounded CORAL SAND 17 38 >50 with sea shells and coral fragments  Off white highly weathered moderately fractured CORAL ROCK  Cr=16% RQD=0%																		
			ws																					
-						Off white highly weathered moderately fractured CORAL ROCK																	Т	
6.00																								
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Γ																						$\perp$		
7.00			CS			1 Y O	Off w				ately	Cr=	=16%	RQD	=0%									
						0		rractured COI	KAL KUU	υ <b>K</b>												$\perp$	$\perp$	
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			CS			$\mathbb{Q}^{\vee}$	Off whit	te highly weath	ered sligh	ntly fr	actured	Cr-	=20%	RQD	_1504		+	+	-		_	+	+	_
			CS			100		CORAL	ROCK			CI-	-2070	RQD	-13/0		_	+			_	+	+	_
						10,0										-	+	+			-	+	+	_
9.00					9.10 Off white highly weathered intensely										+	+			-	+	+	_		
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L			CS												+	+			-	+	+	_		
			CD		fractured coarse sub angular to sub rounded Cr=0% RQD=0% CORAL ROCK (HIGHLY WEATHRED ROCK)								-	+	+	$\vdash$		-	+	+	_			
10.00					ion has not been achieved D - Disturbed Sample N - Natural Moisture Content C - Consolidation																_	_		
SPT	Whe	re full	0.3m	penetration										on		+	Rem	arks	Logge	1 By :				
				lows for th				SS -SPT Sample			Atterberg Lim				Inconfine		ression		Exis	sting		Lahir	u	
СУИ				value) Level obse	erod inci s	a the		W - Water Sample WS-Wgrey Sample			rain Size An pecific Gravi		,		onsolida consolid			g		d leve	l Superv	vised By	<u>v:</u>	_
OWL				Level obse the saturat		c uie		UD- Undisturbed Samp	ile		ulk Density	ny rest			iconsond nemical	ateu Un	an anned			dered		Lahir	u	
NE		Encou						CS- Core Sample	<b>A</b>	V - V	ane Shear Te	est			ganic cor			1		e zero vel	Drilled	By:	_	_
HB FD		immer ee Do	Bound wn	e				Cr - Core Recovery (% RQD-Rock Quality De							Sulphate oride Co				10	. 01		Danusl	hka	
$\rangle\rangle\rangle\rangle$	Ma	ide C	rour	ıd	×××××	Silt		ം Gravel			Laterit	e Noc	dules			omple	tely W	eathe	red F	Rock		1	_	_
	Cla	ay			Sand Organic Matter Silty Sand Highly								-	-				Fı	esh R	tock				

	<del>ا</del>	译	F	Inte	LS	& .	<b>AV</b>	IIN		52,	/ Fax: + Boduth ail: info	aku:	rufaa	nu M	agu,	Maaf	annu	1, M	ale' 20	0-01,	Ma n.m	ıldiv	es
Pro	jec	t			Topo	grap	hic sur	vey and s		tigation for work proje					ey oı	Bo	reho	le No	)	Е	3H-(	)1	
Cli	ent							gineering	Co.Ltd								eet			2	of		2
Loca					Gn.Fu			Rig		Track Wh				54m		-	Grou	nd W	/ater l	evel	]	.10 1	m
Date					06.01				Method		Casing			15.0	0m	_ (	Coord	linate	es –				_
Date	of	Fin	she	1	06.01	.2016	)	Casing	Diameter	100mm	Elevati	on (	m)	<u> </u>	1				re Cont				_
m (	pı		1)		m.							F	ield l	Record	ls				te Cont Shear St			n 2	•
Depth (m)	Cor	ďO.	Гур	uced 1	Depth (m)	Legend		So	il Descri <sub>l</sub>	otion			(S	PT)	ŀ		20 30					90	•
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			CS			0.0	OII WI		ORAL RO		ractured	Cr=	=21%	RQD=	=16%						$\dashv$	_	_
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13.00						ďΩ	was i			fractured	cobble			•			_		_		_	_	_
						υO		Si	ze coral 1	ock						_	_		_	$\vdash$	_	_	_
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			CS			00	was 1	recovered	as, highly	fractured	cobble	CI	=73%	KQD	=0%								
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20.00																							
								·	Sample K	ey / Test Key										Rer	narks	Logged B	y :
SPT	Wł	nere full	0.3m p	enetration	n has not b	een achi	eved	D - D	isturbed Sam	ple	N - N	atural Mo	oisture Cor	ntent	C - Con	solidatio	on						
	tl	he numb	er of b	lows for th	he quoted p	penetrati	on	SS -SI	T Sample		L - A	tterberg	Limit Test		UCT-U	nconfine	ed Co	mpress		Exi	isting		ahiru
	15	s given (	not N-	value)				W - V	Vater Sample		G - G	rain Size	Analysis		CU - Co	onsolida	ited Ui	ndrain	ed	groun	nd laval	Supervise	d By:
GWL	: 0	Ground '	Water I	Level obse	rved inside	e the		WS-W	grey Sample	:	SG -S <sub>1</sub>	pecific G	ravity Test	t	UU-Uno	consolid	lated U	Jndrai	ned		idered		
	В	Borehole	, after	the saturat	ion			UD- U	Indisturbed S	ample	B - Bu	ulk Dens	ity		pH - Ch	emical						I	ahiru
NE	No	t Encou	ntered					CS- C	ore Sample		V - V	ane Shea	ır Test		O - Org	anic cor	ntent				e zero	Drilled B	<u>v:</u>
НВ	-I	Iammer	Bounc	e				Cr - C	ore Recovery	(%)					SO <sub>4</sub> <sup>2</sup> - S	Sulphate	Cont	ent		le	evel		
FD	- I	Free Do	wn					RQD-	Rock Quality	Designation (%)					Cl - Clo	ride Co	ontent					Da	nushka
$\times\!\!\times\!\!\times$	M	Iade C	Groun	ıd	xxxxx	Silt		్ర్య	Grave	l		Late	erite No	dules		C	omp	letely	y Wea	thered	Rock	$\simeq$	
-:-:-	С	lay				San	d	* **	Organ	ic Matter	×××	Silty	Sand			Hig	ghly `	Weat	thered	Rock		Fres	h Rock

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Pro	•				Topo	ograp igital	hic surv	ey and ial tel	d soil inve evision ne	twork p	n for t	the pre	para	atory	surv		Bo	rehole		)		BH-	02	
Cli					M/s. Gn.Fu				ng Co.Ltd		What	Core D	iom	ator.	54m		She	eet Groun	4 W		1	of	1.10	2
Locate			ted		07.01			Rig Drilli	ing Metho			Casing			15.0					- 1	evei		1.10	Ш
Date					07.01				ng Diamet			Elevati			13.0	0111	- C	oordi	nate	es –				
<u> </u>									<u> </u>	•					Recor	de		Mo	oistur	e Con	ent -	%	_	_
u) (m	puo,	·	/pe	pa	u) (	pu			Soil Desci	ription			11		PT)	15		Jndrair						
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			ws	at		()		_		1.1. 0									1					
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					Very Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shells and coral fragments  4.50  Medium Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shells and coral fragments  Very Dense grayish white fine to medium sub angular to sub rounded CORAL SAND															$\overline{\ }$				
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Γ					Medium Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shells and coral fragments  Very Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shells and coral rock fragments  HB												$\rightarrow$							
			ws		SAND with sea shells and coral fragments  Very Dense grayish white fine to medium sub angular to sub rounded CORAL SAND with sea shells and coral rock fragments  HB											_		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	Ш					
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				lows for tl value)	r the quoted penetration SS -SPT Sample L - Atterberg Limit Test UCT-Unconfined W - Water Sample G - Grain Size Analysis CU - Consolidated WS Werey Sample									-			xisting	Cm	L pervised	ahiru d By:				
GWL	: Gr	ound V	Vater l	Level obse	served inside the WS-Wgrey Sample SG -Specific Gravity Test UU-Unconsolidate ration UD- Undisturbed Sample B - Bulk Density pH - Chemical											_	und lev isidere	/ei —						
NE		rehole Encou		the saturat										nt			the zer		Lilled By	ahiru /:				
HB		ımmer		e	CS- Core Sample V - Vane Shear Test O - Organic co Cr - Core Recovery (%) SO <sub>4</sub> <sup>2</sup> - Sulphat													level	<u> </u>	-				
FD XXX	_	ee Do			RQD-Rock Quality Designation (%)								oride Cont			<u> </u>		+	Dar	nushka				
	-	ide C	rour	ıd	Silt Gravel AAAA Laterite Nodules Comple							•				:  _	<u>~</u>	. ~						
	Cla	ay			Sand Organic Matter Silty Sand Highly								ly Wea	thered	Rock	ζ	丄	Fresl	ı Roc	Σk				

Pro	•				the d	igital	terrestr	ey and soil invest ial television netv						vey o			hole l	No		ВН		
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	atio				Gn.F			Rig	Track Wh				54m			Gr	ound	Wate	r lev	/el	1.1	0 m
			rted	1	07.01			Drilling Method		Casing			15.0	00m		Co	ordin	ates	<u> </u>	-		
ate	10	FII	ishe	d	07.01	.2016	)	Casing Diameter	100mm	Elevati	on (1	m)	<u>-</u>				Mai	-t C		- 0/		
ш	р				Э						F	ield i	Recor	ds		Un		sture C d Shea			/m <sup>2</sup>	_
Ē.	Con	Ō.	Ŋď	rced	. E	end		Soil Descrip	ption			(S	PT)		10		30	40 50			80	90●
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00																					<u></u>	
_	1177	6	102				1	Sample Key / Test		N			C ~					Remai	ks	Logged	By:	
Γ				-	on has not b the quoted			D - Disturbed Sample SS -SPT Sample		Natural Moist Atterberg Lin		nent		nsolidat Inconfir		npressio	n	Dwi	inc		Lahiru	
		e number of blows f given (not N-value)						W - Water Sample		Grain Size An						drained		Exist ground	_	Supervis		
WL					served insid	e the		WS-Wgrey Sample UD- Undisturbed Sample		-Specific Grav	ity Test	1			dated U	Indraine	1 1	consid			Lahiru	
			e, after							Bulk Density				hemical								

V - Vane Shear Test

× x Silty Sand

Laterite Nodules

O - Organic content

Cl - Cloride Content

SO<sub>4</sub><sup>2</sup> - Sulphate Content

Completely Weathered Rock

Highly Weathered Rock

CS- Core Sample

Cr - Core Recovery (%)

RQD-Rock Quality Designation (%)

Gravel
Organic Matter

Not Encountered

- Free Down

Clay

-Hammer Bounce

Made Ground

xxxxx Silt

Sand

as the zero

level

Drilled By:

Danushka

Fresh Rock

$\exists$	•	뎒	E	Inte	LS	<b>&amp;</b>	AM private li	IN mited		52, Bodu	thaku	rufaa	nu N	lagu,	bile Hotlin Maafannu ; Web: ww	, Mal	e' 20	-01, N		ives.
Pro	•				Topo	ograp igital	ohic surv terrestr	ey and soil inve ial television ne	twork p	n for the p	repai	ratory	y surv		Boreho			BH	-01	
Cli								neering Co.Ltd		10	ъ.		T		Sheet	1 337	1		of	2
Loca			et a d		S.Hit 09.01			Rig Drilling Method	1 Dotor		Diam		54m		Grou	nd Wa	ter ie	vei	0.70	) m
Date				d	09.01			Casing Diameter			ng dep ation (		13.0	OIII	Coord	linates	<b>-</b>	-		
	01	1 1111	13110	<u> </u>	Ī	12010	Ī	Cusing Diamete	7 100m	in Elevi			<u>I—</u>	,	N	Ioisture	Conte	nt - %		_
(m)	puo		be	Ę.	(E)	ъ		Soil Descr	intion		1		Recor	ds -	Undra	ined She	ear Str	ength -	t/m <sup>2</sup>	
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Son Desci	триоп			(2)	PT)		10 20 30		50 60		80	90
0.00	Š	S	Š	% 5	Ω	À		Ground le	evel		15cm	15cm	15cm	z	5 10 15	Resista		0 35		45
0.00	7	D1	DS			· : · ():		Ground	CVCI		_	-	_	$\Box$	3 10 13	1	1 1	33	T	45
	Х					V		ite coarse to med		-									+	
_			ws	<u> </u>		0	sub rou	nded CORAL SA		th coral an	d									
1.00				G.W.L		n		sea shell fra	gments								+		+	
-	7	D2	SS	at	1.00	V					9	12	13	25						
	Δ			0.70m		0								-			25			
<u> </u>			ws			.0.														
2.00						v														
	7	D3	SS			0					11	9	7	16		7				
	Δ					- 10					'					16				
-			ws			ν.														
3.00						0.														
	7	D4	SS			- 1					4	5	10	15						
	$\triangle$					V									1	. 15				
-						0		m dense grayish												
4.00			ws			- 1	_	ular to sub round			)									
						V	Wi	th coral and sea	shell frag	gments										
	abla	D5	SS			₩::					9	5	8	13						
5.00	$\triangle$					- : ()									1	13				
_						<b>.</b> ".														
			ws			0														
						· : 0:														
6.00						V-										ackslash				
Г	$\bigvee$	D6	SS			Λ			10	7	10	17		$\perp$						
	$\triangle$	l			6.45	٠٧٠			-			Ш		<b>▲</b> 17			$\perp$			
Γ					6.45	n 0				•		.								
7.00						۱ <sub>0</sub> ,												_	_	
			CS			ĺΩν	Off v	white moderately	fracture	ed porous	Cr	=47%	ROD	)-0%			$\perp$	_	_	
L						$\mathbb{Q}_{0}$		CORAL R	COCK		Ci	— <del>4</del> / 70	KQL	J_U70			$\perp$	_	-	
						ŊÛ											$\perp$		+	_
8.00						Ι <u>ν</u>					+		<b>I</b>			_	+	_		
1					7.95	1	Gravish	white fine to me	dium en	h angular	to					+	+	_	-	
L			WS				-	nded CORAL S.		_							+	-	+	
1						0	Sub Iou	and coral fra	ar sou snei	<u> </u>					-	+-	-			
9.00	Ĺ.,					1				4					+	+	-			
	X	D7	SS		9.00	Λ.	Loose	grayish white fi	8	3	4	7	47		+	-	+			
_	$\sim$					V.		to sub rounded (			h								+	
			WS			0		sea shell and cor								+				
10.00						V										n-	norbe	II '	D <sub>v</sub> ·	
SPT	Whe	re full	0.3m	penetration	n has not b	een achie	eved	D - Disturbed Sample		N - Natural M	oisture Co	ontent	C - Cor	nsolidatio	on	Ken	narks	Logged	ъу:	
1				olows for t	he quoted	penetrati	on	SS -SPT Sample		L - Atterberg					d Compression	Exi	sting		Lahiru	
GWL	-	-		-value) Level obse	rved insid	e the		W - Water Sample WS-Wgrey Sample		Analysis ravity Te				ed Undrained ated Undrained	_	id leve	l Supervi	sed By:		
	Во	rehole	, after	the saturat				UD- Undisturbed Sample		ity		pH - Cl	hemical			idered e zero		Lahiru		
NE HB			ntered Boun	ne				CS- Core Sample Cr - Core Recovery (%)		ır Test		_	ganic con Sulphate			e zero evel	Drilled	By:		
FD		ee Do				RQD-Rock Quality Designation (%)								Sulphate oride Co				I	Danushk	a
$\rangle\rangle\rangle\rangle$	Ma	ide C	irour	nd	×××××	Silt		%് Gravel		ΔΔΔΔ Late	erite No	dules		C	ompletely Wea	athered	Rock		1	
	Cla	ay				San	d	Organic M	atter	× x Silty	Sand			Hig	hly Weathered	l Rock		Fre	sh Ro	ck

	•	E	E	Int	Tel/ Fax: +960 334 6000, Mobile 52, Boduthakurufaanu Magu, Ma Email: info@elsamin.com.mv, W  Topographic survey and soil investigation for the preparatory survey on										, Maafann	u, Male	20	-01, N	Aald mv	ives
Pro	-				the d	igital	terrestr	ial television netv						vey o	Boreno	ole No		ВН	-01	
Clic	ent							neering Co.Ltd							Sheet		2	0		2
Loca	atio	n			S.Hitl			Rig	<u> </u>	Core			54m		Grou	ınd Wate	er le	vel	0.70	) m
Date					09.01			Drilling Method					15.0	0m	Coor	dinates	<u> </u>	-		
Date	of	Fin	ishe	d	09.01	.2016	5	Casing Diameter	100mn	n Eleva	tion (	m)	<u> </u>				<u>l                                     </u>	- 0/	_	
Ê	р				Э						F	ield I	Recor	ds		Moisture C			. / 2	
th (	Con	0.	ype	peo	th (	pue		Soil Descrip	tion			(S	PT)		10 20 30	ained Shea			t/m 8 <b>●</b>	90●
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend					п	E	Е	П		T Resistan			t .	
10.00	-	0,	-					Ground lev	el		15cm	15cm	15cm	Z	5 10 1	15 20 2	25 30	0 35	40	45
	X	D8	SS			0		Same as prev	vious		11	5	4	9	9					
12.00	X	D9	ws ss		12.00	0 0					15	18	11	29				29		
13.00		Dio	WS SS			0 0		dense yellowish vular to sub rounde				21	9	30						
14.00 			ws			0	_	th seashell and con			23	21						30		
	X	D11	SS		15.45	0	END (	OF THE BORE HO	OLE A	T 15.45m	13	16	9	25			25			
<u>1</u> 6.00								DEPTH												
L																+	$\vdash$	-	-	-
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Ļ																				
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													1			$\perp \perp$	$\square$		-	
Γ													1			$\perp \perp$	$\square$		-	
20.00													1							
								Sample Key / Test	Key							Rema	rks	Logged	By:	_
SPT	the	numb	er of b	lows for t	n has not be he quoted p			D - Disturbed Sample SS -SPT Sample W Woter Sample		N - Natural Mo L - Atterberg L	imit Test		UCT-U		ed Compression	Exist	ting		Lahiru	
GWL				value) Level obse	erved inside	the		W - Water Sample WS-Wgrey Sample		G - Grain Size A SG -Specific Gr		t			ted Undrained dated Undrained	ground		Supervis	sea By:	
				the saturat				UD- Undisturbed Sample		B - Bulk Densit	y		pH - Cl	hemical		consid			Lahiru	
NE HB			ntered					CS- Core Sample		V - Vane Shear	Test			ganic co		as the		Drilled I	By:	
HB FD		mmer ee Dov	Bound wn	æ				Cr - Core Recovery (%) RQD-Rock Quality Designa	tion (%)					Sulphate oride Co	e Content ontent	icv		D	anushk	.a
XXX	_		rour	ıd	X××××	Silt		Soor Gravel		ΔΔΔΔ Later	rite No	dules			ompletely We	eathered R	ock		1	
	Cla				<u> </u>	San	d	Organic Matt		× × Silty				_	ghly Weather			Fre	a sh Ro	ock

$\mathbf{q}$	•	臣	E	Inte	LS	<b>&amp;</b>	AM	<b>IN</b>			52, E	Fax: + Boduth il: info	akuı	rufaa	nu M	lagu,	Maafa	annu,	, Ma	ale'	20-0	01, M		ves
Pro	•				Topo	ograp igital	hic surv terrestri	ey and ial tel	d soil inves evision net		n for t	the pre	epar	atory	surv		Bo	rehole				ВН	-02	
Cli									ng Co.Ltd	-		C D			T		She		1 11	, ,	1	0		2
Loca			ut a d		S.Hitl 10.01			Rig	ing Method	Dotor		Core D Casing			54m 15.0			Groun	a w	ater	lev	ei	0.70	) m
Date				d	10.01				ng Diamete			Elevati			13.0	UIII	$\dashv$ c	oordi	inate	es				
	1	1 111	ISHC	<u> </u>		.2010	,	Casii	ig Diamete	1 100111	111	Licvati			<u>i —                                     </u>	.	_ I	Me	oistu	re Co	nten	t - %		
Depth (m)	Sa. Cond		96	р	Depth (m)	р			C-:1 D:				F		Recor	ds -	Į					ngth - t	/m²	
pth	ပိ	Sa.NO.	Sa.Type	Reduced level	pth	Legend			Soil Descri	ption				(SI	PT)	Ŀ	10 20		40		60		80	90
	Sa	Sa.	Sa	Re lev	Ď	Le			0 11				15cm	15cm	15cm	z						lows/f		<u> </u>
0.00		D1	DS			· - ·V·			Ground le	vei			1:	=	=		5 1	10 15	20	25	30	35	40	45
	IX	Di	DS			0	Dagrami	المارية والم	ite fine to n		مادده					-	_		+	+	+	-	+	
-			1110	<u> </u>		۸			ounded CO			nguiai				-	-		+	+	+	-	+	
			WS			0	10	Sub 1	ounded CO	INAL 3.	AND					-	-		+	+	+	-	+	
1.00				G.W.L	1.00	0							10				-		+	+	+	-	+	
	IX	D2	SS	at	1.00	۸.							12	11	9	20	-		$\downarrow$	20	+	-		
-		1	****	0.70m		0,										-	_		+	+	+	-	+	
			WS			V													+	+	+	-		
2.00						۸										40			+	+	+	-		
	lΧ	D3	SS			·V							9	10	8	18			<b>↓</b> 13	8	+	-	-	
L		1				0										-			$/\!\!+$	+	+	-		
			WS													-		$-\prime$	$\perp$	+	+	-		
3.00						·V:										-	_	$\perp$	+	+	+	-	-	
	lΧ	D4	SS			0	Mediur	n dens	se grayish v	white fir	ne to c	coarse	5	6	7	13	-	<b>1</b>	3	+	+	-	-	
L		4				Λ.			sub round							-	-	$\vdash \lor$	+	+	+	-	-	
						0	_		al and sea s							-	_	$\vdash$	+	+	+	-		
4.00			WS			()				•									$\setminus$	_	+	_		
						<b>.</b>											_		$\downarrow$	_	+	_		
L						. : ()													_\	$\vdash$	+			
	X	D5	SS										5	9	15	24	_		_	$\frac{1}{2}$	4	_		
5.00	$\sim$	4				0													_		7	_		
																			_	_	+	_		
L			WS			v											_		_	_	$\perp$	_		
						. V													_	_	$\perp$	_		
6.00						0													4	4	$\perp$		-	
					6.00	0 0								-					_	_	$\perp$			
L			CS			000	Off whi	te fres	sh CORAL	ROCK	; Latte	er part	Cr-	-640/	RQD:	-120/			_	_	$\perp$	_		
			CS			90		of the	core is high	nly fract	ured		CI-	-04/0	KQD.	-13/0			_	_	$\perp$			
7.00						0°													_	_	$\perp$	_		
					7.00	()													_	_	+			
L		]															_		_	-	+	_	-	
	$\bigvee$	D6	SS			0							16	НВ		>50	-		$\perp$	_	+	_		>50
8.00	$ ule{}$	4				()	Voru de	nee e	rayish whit	a madin	ım to :	000*00					-		+	+	+	-	-	
1		1							rayısıı willi o sub round								-		+	+	+	-	-	
L			ws			0	sub ang		coral rock			MIND							_	_	+	-		
						.0 .		** 1111	corui rock	nugino							-		+	+	+	-	-	
9.00		]				V											-		+	_	+	-	-	
	V	D7	SS			. ^							15	18	НВ	>50			_	_	+	-	-	>50
L	$\sim$	4				0								<u> </u>			_		_	+	+	-		
			ws		9.45	0,0	Off whi	te fres	sh CORAL	ROCK	; Latte	er part	Cr-	=40%	RQD	-0%	-		+	+	+	-	-	
10.00						00	of	the c	ore is inten	sely frac	ctured	l	CI-	-4070	KQD	-070 L								
SPT	<b>W/1.</b> -	re foll	0.3	nenetrotic	n has not b	een ook!	wed	D Die	turbed Sample		N N	tural Moist	ure Co	ntent	C C	solidatio	2		R	emark	S	Logged	By:	
91.1					nas not be he quoted p			SS -SPT				turai Moist terberg Lin					n I Compres	sion	Б	xistir	10		Lahiru	
1_	is	given (	not N-	value)					ter Sample			ain Size An			CU - C	onsolidat	ed Undrain	ed		und le	_	Supervis	ed By:	•
GWL				Level obse the satura	rved inside	e the		_	rey Sample disturbed Sample			ecific Grav lk Density	ity Test	t	UU-Un pH - Cl		ted Undra	ined	_	nside			Lahiru	
NE		Encou		c outuid				CS- Core	e Sample			ine Shear T	est		1	anic con	ent			the ze		Drilled I		
HB		ammer	Bound	ce					e Recovery (%)	notio- (CC)						Sulphate				level			anushk	
FD SSS	_		<sub>wn</sub> Groun	nd	××××	Silt			Gravel	нацоп (%)		Laterit	o Ma	dulos	CI - Cl	oride Cor	mpletel	v W/~~	thorn	d D ~	·k		anushk	а
	Cla		Jioui	ıu	× × X	San	1	***	7	uttor	× × ×	Silty S		autes	EX.	=	mpietei ily Wea	-			.K		1 ch D-	ok
	1 01	⊶ <i>y</i>				Jane	-	***	Organic Ma	uu	لكنا	omy 3	unu		$\subseteq$	⊿ mg	ny wea	ancied	NUCL	Λ.		1.16	sh Ro	CV.

$\{$ L	5	탾		Int	LS	&	<b>AM</b> private li	mited	:	Tel/ Fax: 52, Bodutl Email: info	naku	rufaa	anu N	1agu	, Maaf	annu,	Male	20	-01,	Ma	ıldi	ves
Project			Topographic survey and soil investigation for the preparatory survey on the digital terrestrial television network project in the Republic of								n Bo	Borehole No			BH-02							
Clie	ent							neering Co.Ltd							She			2		of		2
Loca	tio	1			S.Hit			Rig	ID :	Core I			54m		(	Ground	Wat	er le	vel	0	.70	m
Date				1	10.01			Drilling Method					15.0	0m	<b>—</b> с	oordin	ates	<u> </u>				
Date	OI	rın	Isne	a	10.01	.2010	) 	Casing Diameter	TOOMI	Elevat			<u>i</u>	1		Moi	sture (	onter	nt - %			
(m)	pu		e	70	Depth (m)						F		Recor	ds	Į	Jndraine					1 <sup>2</sup>	_
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	pth	Legend		Soil Descrip	otion			(S	PT)		10 20		40 5		-		-	0
	Sa.	Sa.	Sa.	Rec leve	De	Le					15cm	15cm	15cm	z		SPT R				^		_
10.00						. ^		Ground lev	el		15	15	15		5 1	10 15	20 :	25 30	0 35	40	) 4	45
11.00						000		Same as prev	vious													
12.00					10.95	000	ROCK	white intensely fra ; Core was recover angular to sub roun fragment	red as conded Con	obble size	Cr	=10%	RQE	<b>)</b> =0%								
	$ egthinspace{-2mm}$	D8	SS		12.00	· : :0:	Wash Sa	mple:			18	20	НВ	>50								
	$\triangle$					V		•				•	AMPL	•							7	50
13.00		D9	ws		13.50	0		nite fine to medium th coral and sea sh			17	12	15	27						/	/	
14.00	X	5)	ws		13.30	0		n dense pale grayis sub angular to sub SAND			,	12		2,				<b>4</b> <sup>2</sup>	7			
15.00	$\overline{}$	D10	SS		15.00	0	Den	se pale grayish off SAND	white (	CORAL	15	18	20	38					$\downarrow$			
_	Δ				15.45	·v·	END (	OF THE BORE HO		Γ 15.45m	15	10	20							<b>\</b> 3	8	
<u>1</u> 6.00								DEI III												+		
-																						
<u>1</u> 7.00																						
_																						
18.00																						
L					1								1				+	$\vdash \vdash$	+	+	-	
																	+		+	+	-	
<u>1</u> 9.00																						
-																						
20.00																						
				•	•	•	•	Sample Key / Test				•	•				Rema	ırks_	Logge	ed By	:	
SPT										nsolidati Inconfin		Compression Exist:			Supervised By:							
the number of blows for the quoted penetration is given (not N-value)					W - Water Sample		G - Grain Size A											ed Compres ited Undrain				
GWL : Ground Water Level obs								WS-Wgrey Sample SG -Specific Grav				ity Test UU-Unconsolidated				ground			red			
NE	Borehole, after the satura NE Not Encountered							UD- Undisturbed Sample CS- Core Sample		B - Bulk Density V - Vane Shear T	est	pH - Chemical O - Organic content				as the zer			Lahıru			
HB -Hammer Bounce				e				CS- Core Sample V - Vane Shear T Cr - Core Recovery (%)				SO <sub>4</sub> <sup>2-</sup> - Sulphate Con				11				-		
FD XXX		ee Dov			X,. ¥ X	a		RQD-Rock Quality Designa		ΔΔΔΙ			Cl' - Cl	oride Co						Danı	ıshka	
~~ <u>~</u>			roun	ıd	x×^×x	Silt		Gravel		Lateri		dules		_	ompletel	-		ock			_	
F	Cla	ıy			10000	San	d	Organic Matt	ter	X X Silty S	and		[\capsilon\)	- 1His	hly Wea	thered R	ock		F	resh	Roc	ck

添付資料

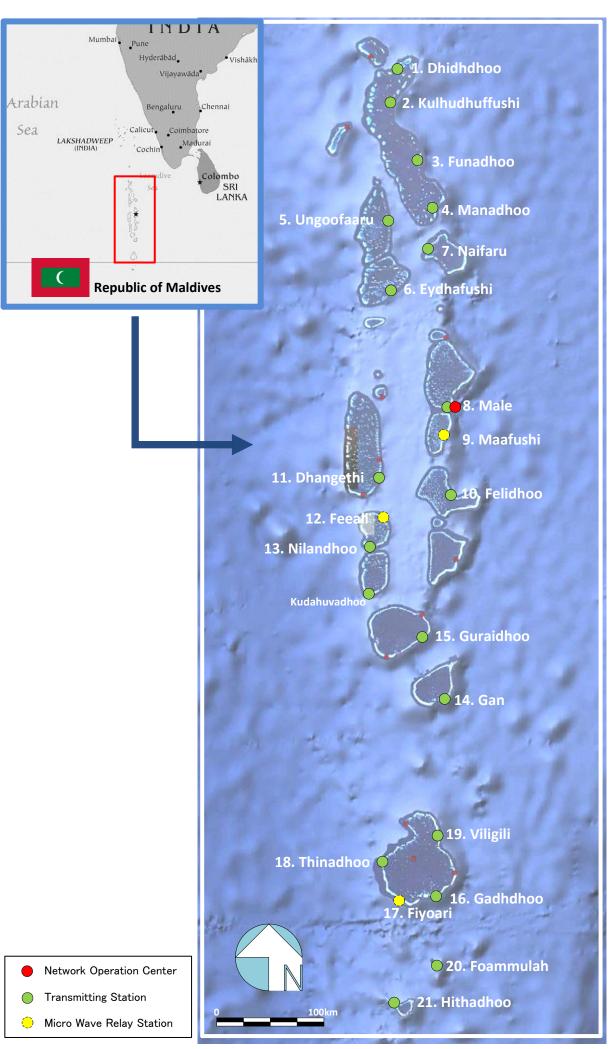
資料-8 概略設計図

### 添付資料 8 概略設計図

No	図面名称
G-1	サイト位置図
A-1	デジタル放送網全体図
B-1	送信所系統図(ディッドゥ)
B-2	送信所系統図(クルドゥフシ)
B-3	送信所系統図(フナドゥ)
B-4	送信所系統図(マナドゥ)
B-5	送信所系統図(ウンゴファル)
B-6	送信所系統図(エイダフシ)
B-7	送信所系統図(ナイファル)
B-8	送信所系統図(マレ)
B-9	送信所系統図(マーフシ)
B-10	送信所系統図(フェリドゥ)
B-11	送信所系統図(ダンゲティ)
B-12	送信所系統図(フィアリ)
B-13	送信所系統図(ニランドゥ)
B-14	送信所系統図(ガン)
B-15	送信所系統図(グライドゥ)
B-16	送信所系統図(ガッドゥ)
B-17	送信所系統図(フィヨアリ)
B-18	送信所系統図(ティナドゥ)
B-19	送信所系統図(ビリギリ)
B-20	送信所系統図(フォームラク)
B-21	送信所系統図(ヒタドゥ)
C-1	NOC 全体図
C-2	NOC 系統図
C-3	PSM 系統図
C-4	MMS&MoHA 系統図
C-5	民放系統図
AA-1	TRANSMITTER BUILDING PLAN
AA-2	TRANSMITTER BUILDING ELEVATION & SECTION
AA-3	TRANSMITTER BUILDING DETAIL
AA-4	TRANSMITTER BUILDING ELEVATION & SECTION
AA-5	TRANSMITTER BUILDING DETAIL OF STAIR
AA-6	TRANSMITTER BUILDING FITTING SCHEDULE

No	図面名称
AS-1	TRANSMITTER BUILDING FUNDATION PLAN AND 1st, 2nd, ROOF FRAMING
	PLAN
AS-2	TRANSMITTER BUILDING FRAMING ELEVATION
AS-3	TRANSMITTER BUILDING ALLOWABLE BEARING CAPACITY 60kN/m <sup>2</sup>
	FOUNDATION SCHEDULE
AS-4	TRANSMITTER BUILDING ALLOWABLE SOIL BEARING CAPACITY 70kN/m <sup>2</sup>
	FOUNDATION SCHEDULE
AS-5	TRANSMITTER BUILDING ALLOWABLE SOIL BEARING CAPACITY
	100kN/m <sup>2</sup> FOUNDATION SCHEDULE
AS-6	TRANSMITTER BUILDING ALLOWABLE SOIL BEARING CAPACITY
	140kN/m <sup>2</sup> FOUNDATION SCHEDULE
AS-7	TRANSMITTER BUILDING GIRDER SCHEDULE COLUMN SCHEDULE
AS-8	TRANSMITTER BUILDING BAR ARRANGEMENT OF STAIR WALL AND
	SLAB SCHEDULE
AS-9	TRANSMITTER BUILDING BAR ARRANGEMENT OF FRAMING ELEVATION
E-1	TRANSMITTER BUILDING LEGEND FOR SYSTEM & WIRING ELECTRICAL
	PANEL
E-2	TRANSMITTER BUILDING POWER SUPPLY PLAN
E-3	TRANSMITTER BUILDING LIGHTING FIXTURE & OUTLET SOCKET PLAN
M-1	TRANSMITTER BUILDING VENTILATION AND AIR CONDITIONING
	SYSTEM EQUIPMENT SCHEDULE
L-1	敷地配置図(ディッドゥ)
L-2	敷地配置図(クルドゥフシ)
L-3	敷地配置図(フナドゥ)
L-4	敷地配置図(マナドゥ)
L-5	敷地配置図(ウンゴファル)
L-6	敷地配置図(エイダフシ)
L-7	敷地配置図(ナイファル)
L-8	敷地配置図(マレ)
L-9 L-10	敷地配置図 (マーフシ)         敷地配置図 (フェリドゥ)
L-10	敷地配置図(ダンゲティ)
L-11	敷地配置図(フィアリ)
L-12	敷地配置図(ニランドゥ)
L-13	敷地配置図(ガン)
L-15	敷地配置図(グライドゥ)
L-16	敷地配置図(ガッドゥ)
L-17	敷地配置図(フィヨアリ)
21/	- Динаран (/ 1 · / //

No	図面名称
L-18	敷地配置図(ティナドゥ)
L-19	敷地配置図 (ビリギリ)
L-20	敷地配置図(フォームラク)
L-21	敷地配置図(ヒタドゥ)



PPROJECT FOR THE DIGITAL TERRESTRIAL TELEVISION BROADCASTING
NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF MALDIVES

Title

PROJECT SITES

G-1

Z1st July, 2016

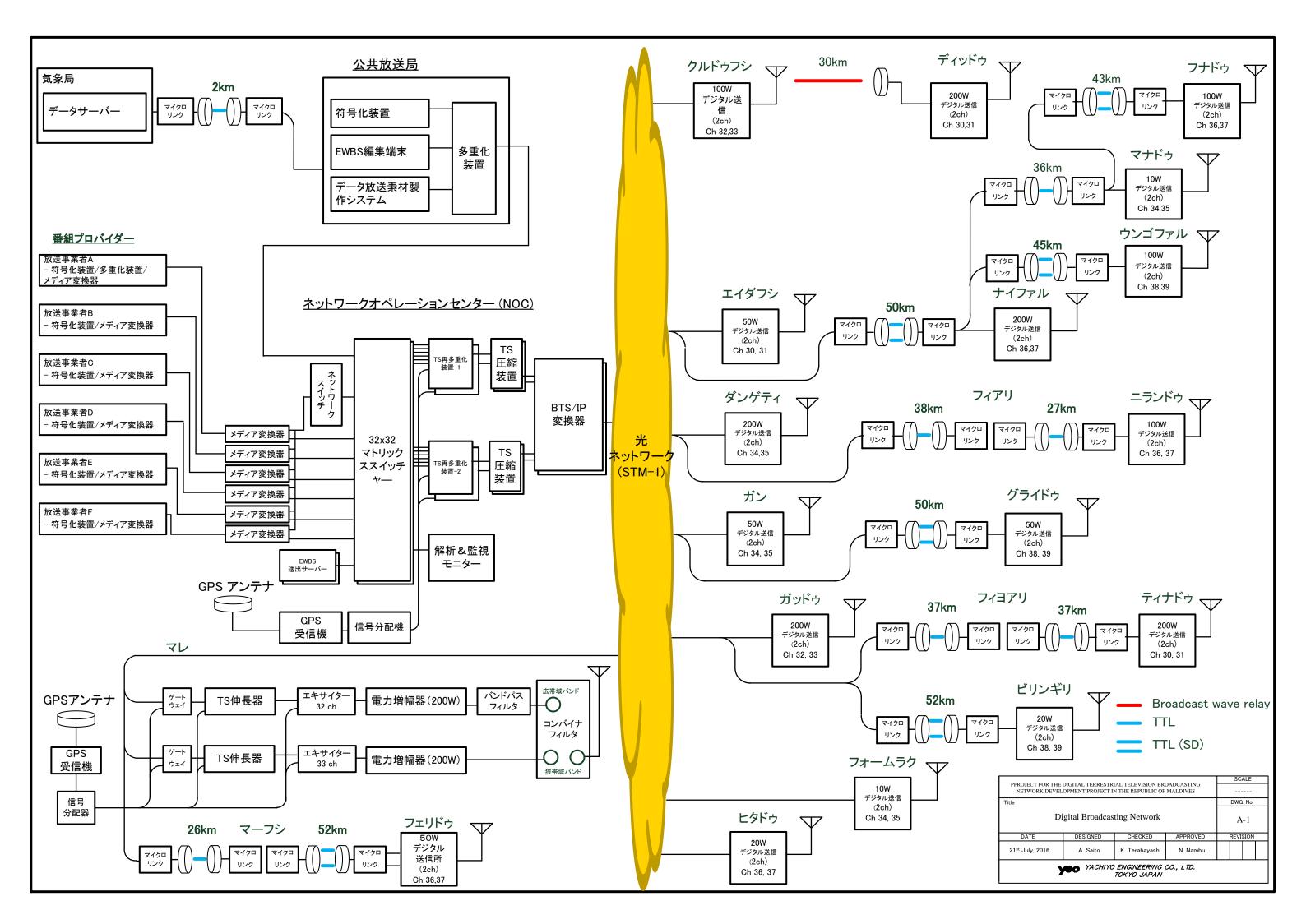
A. Saito

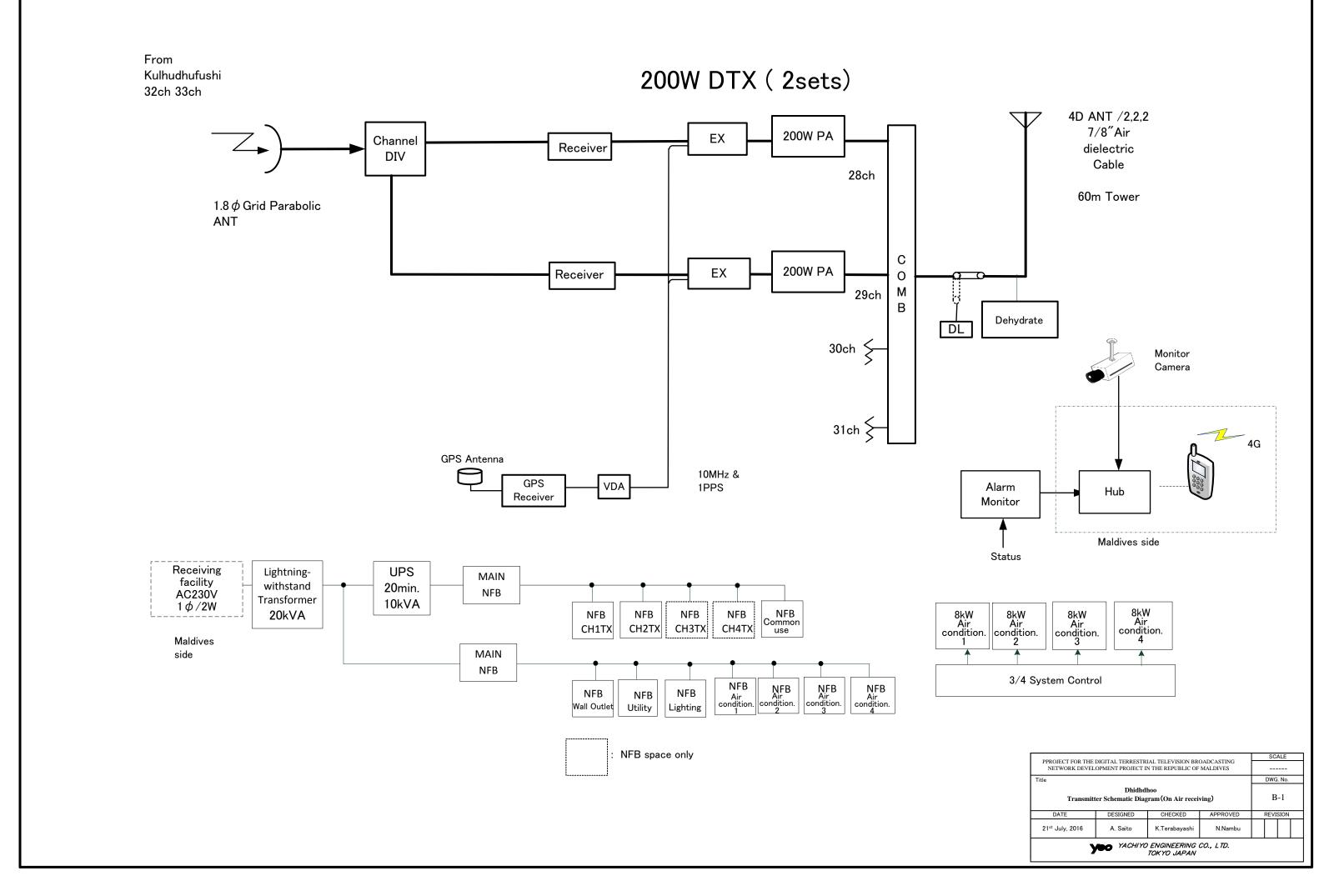
R. Terebayashi

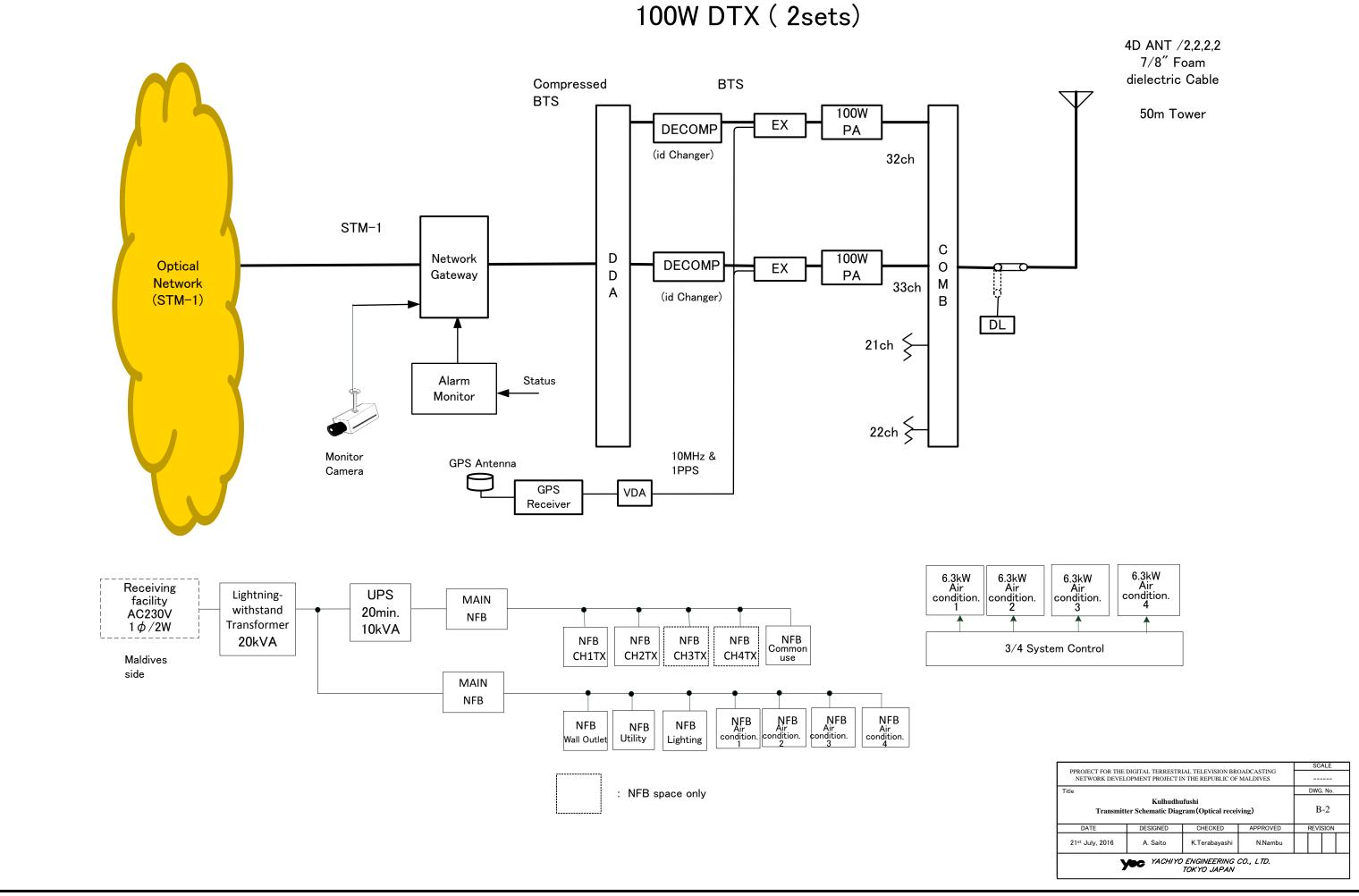
N. Nambu

N. Nambu

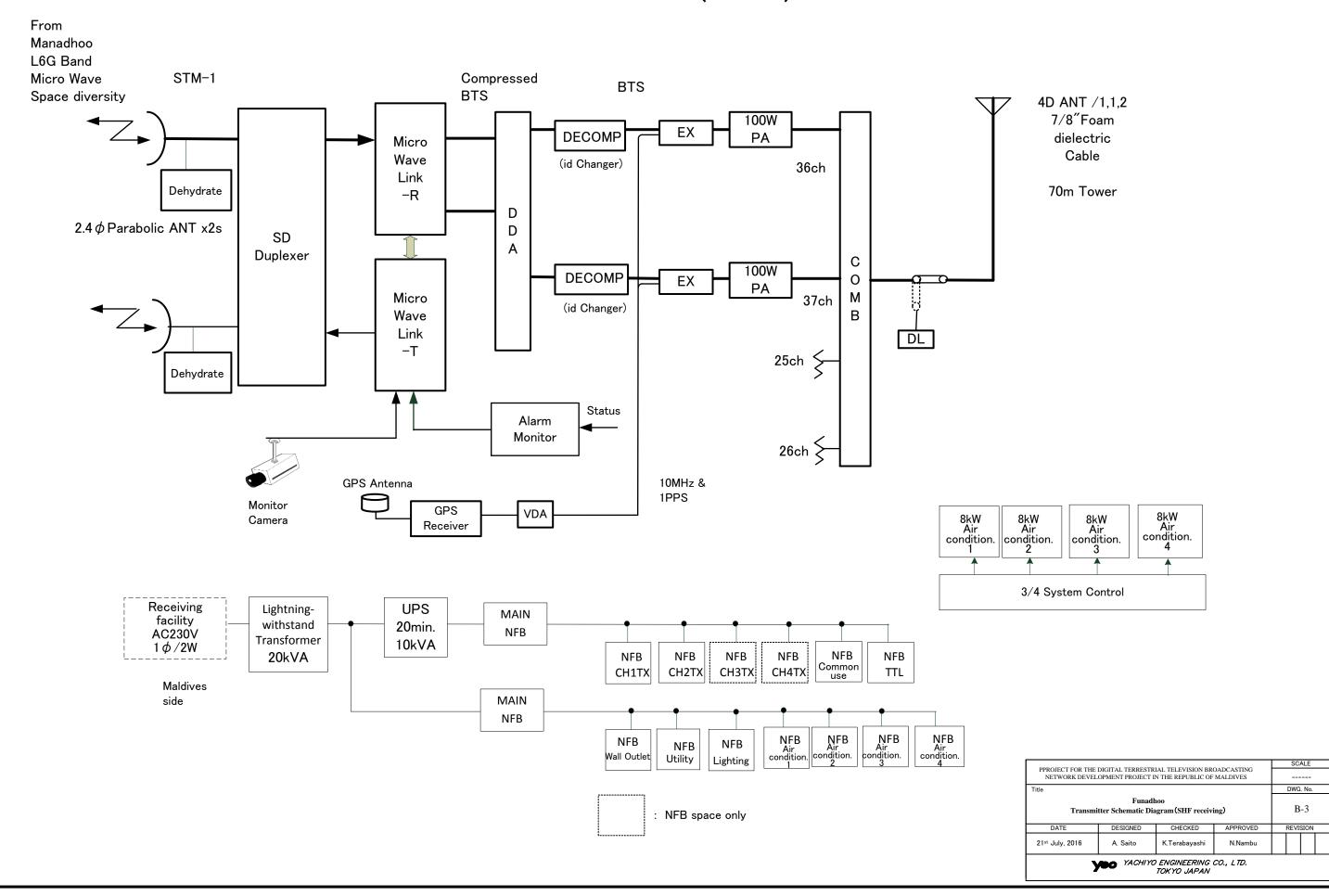
TOKYO JAPAN



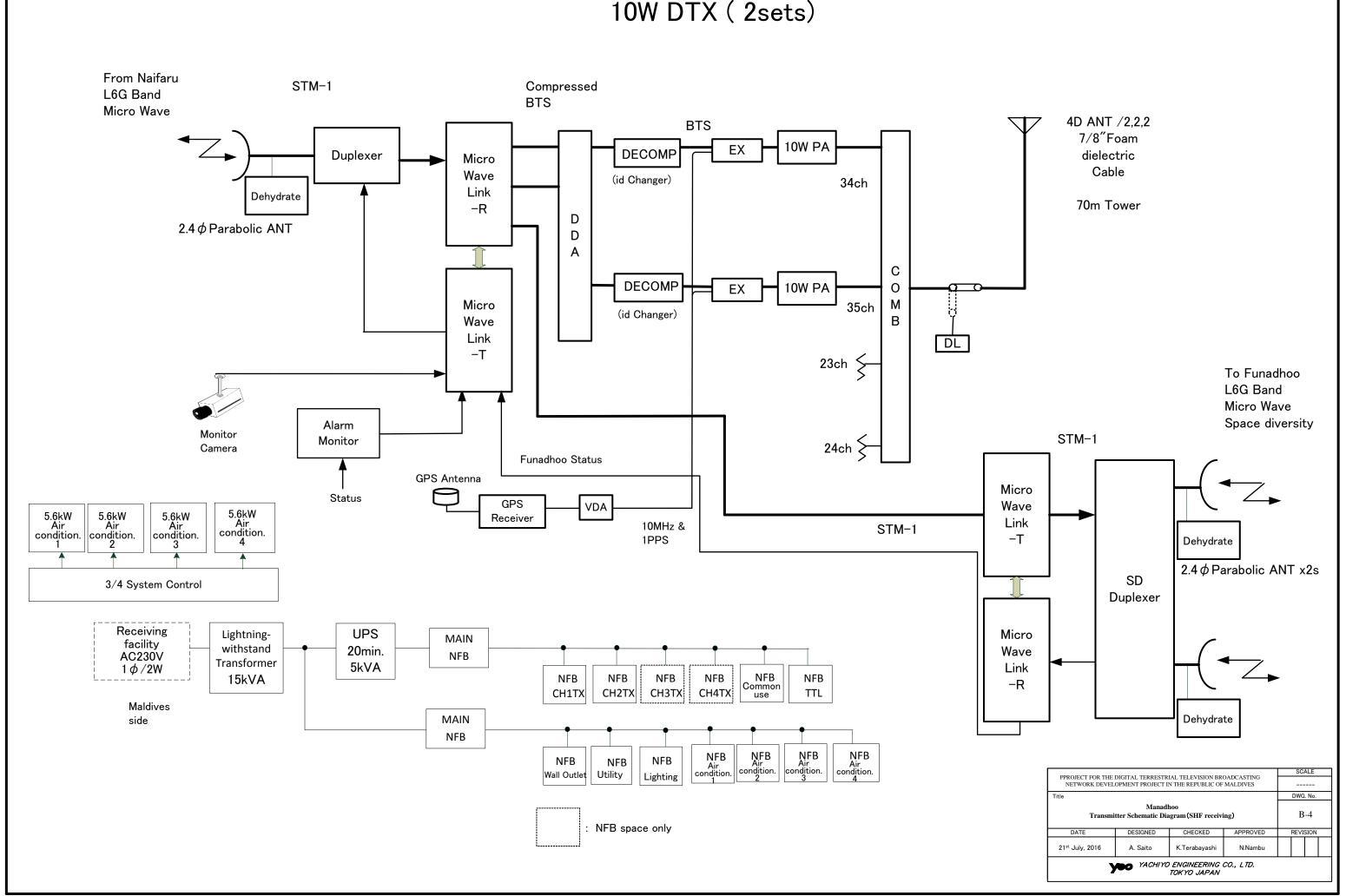




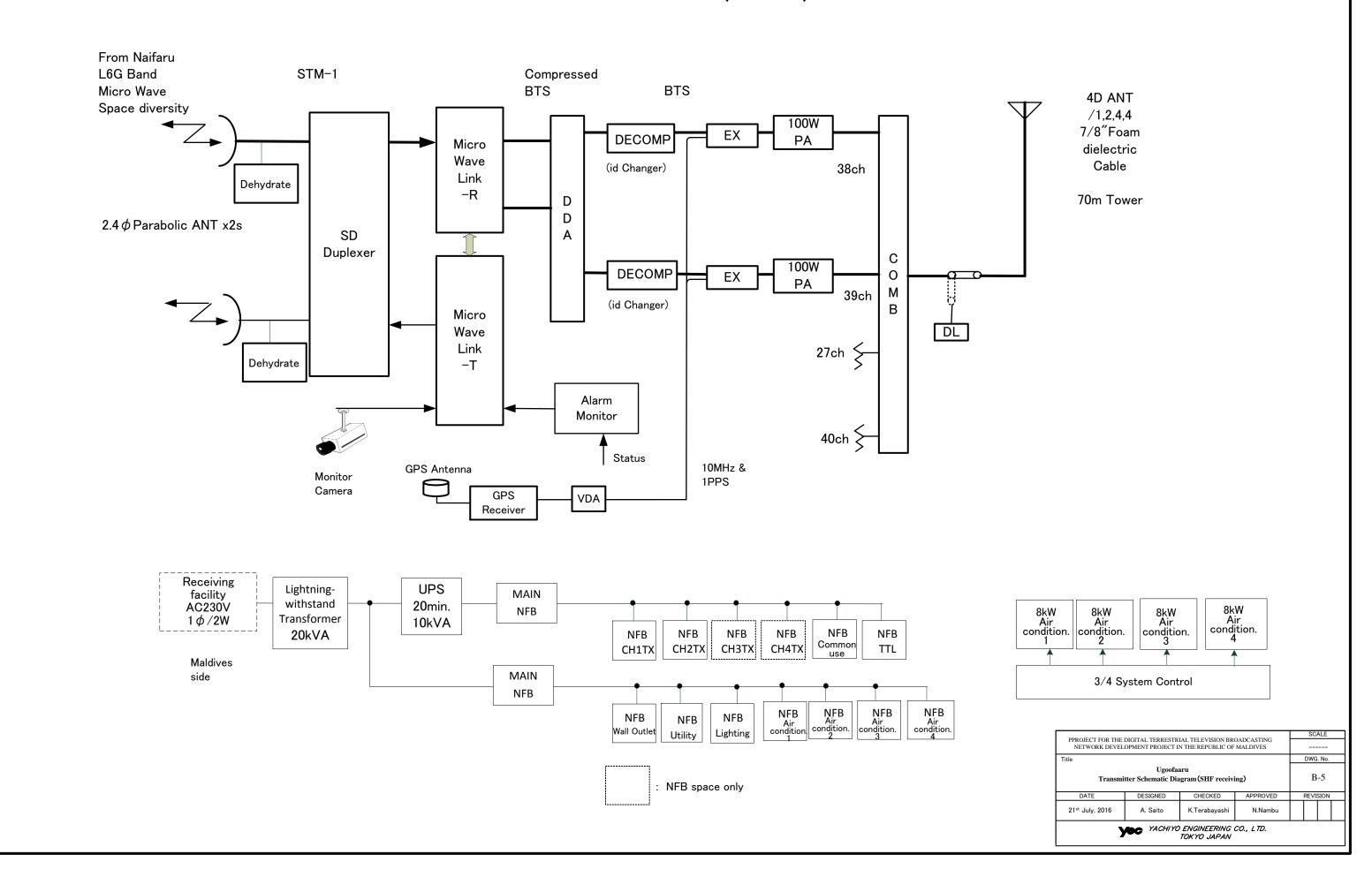
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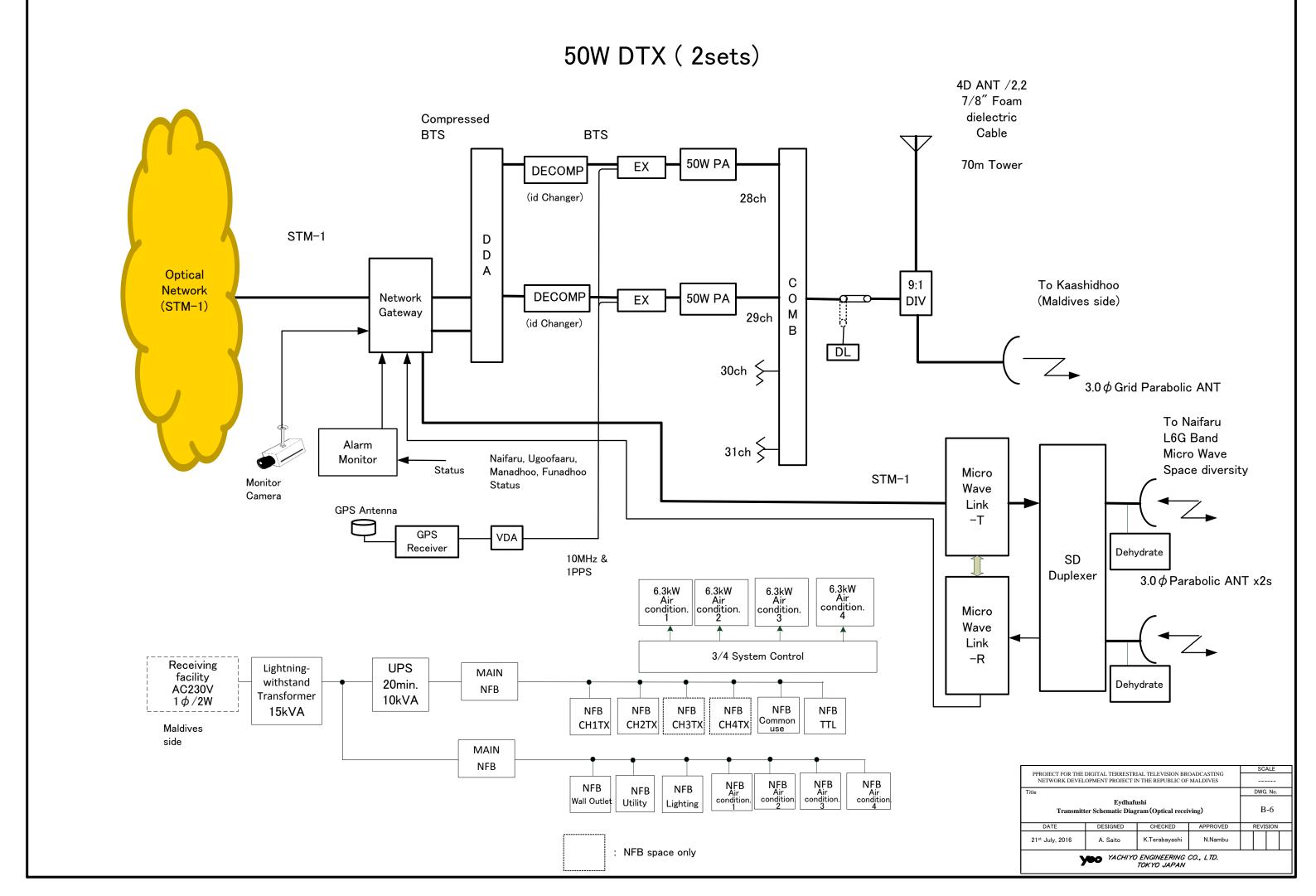


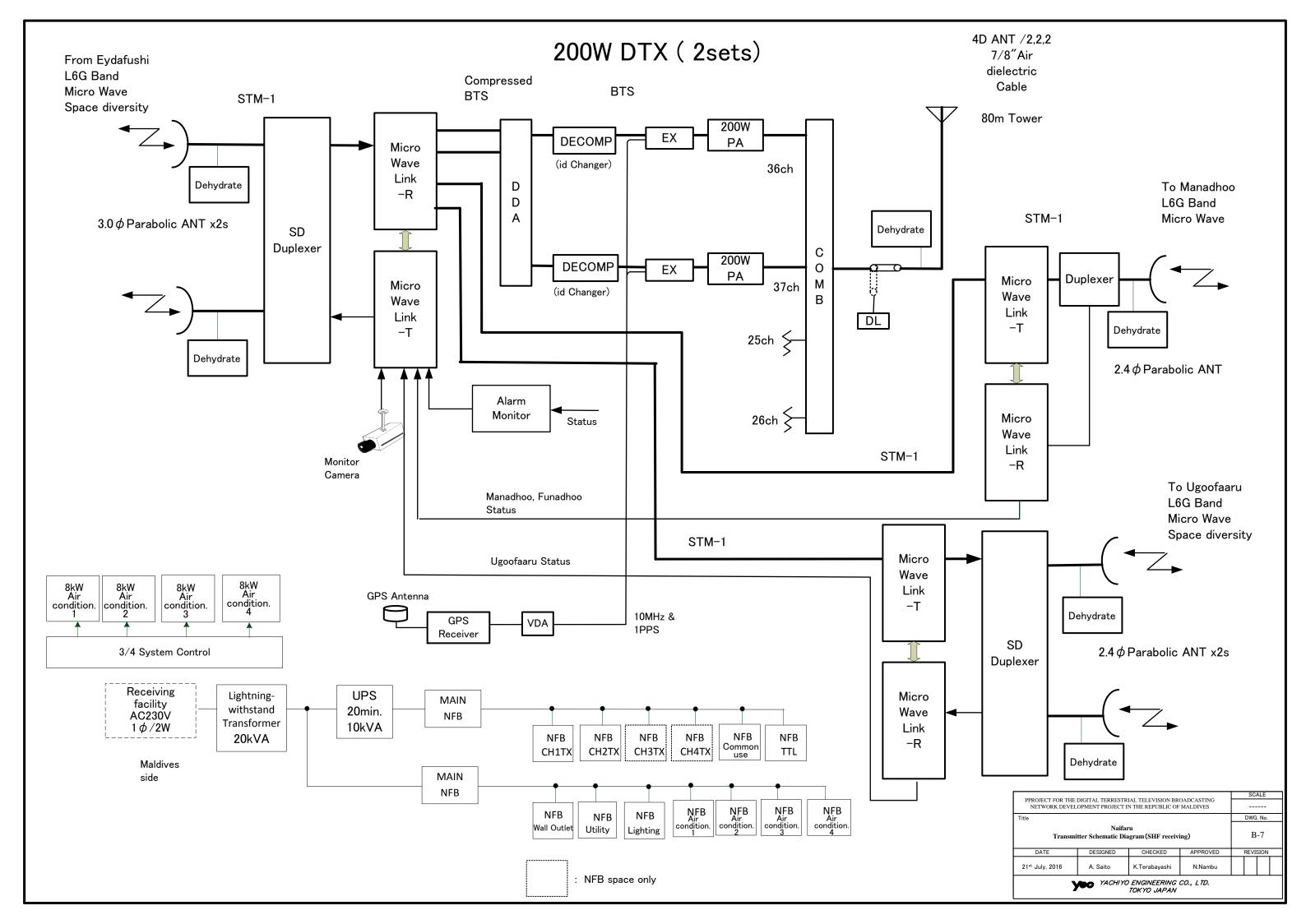
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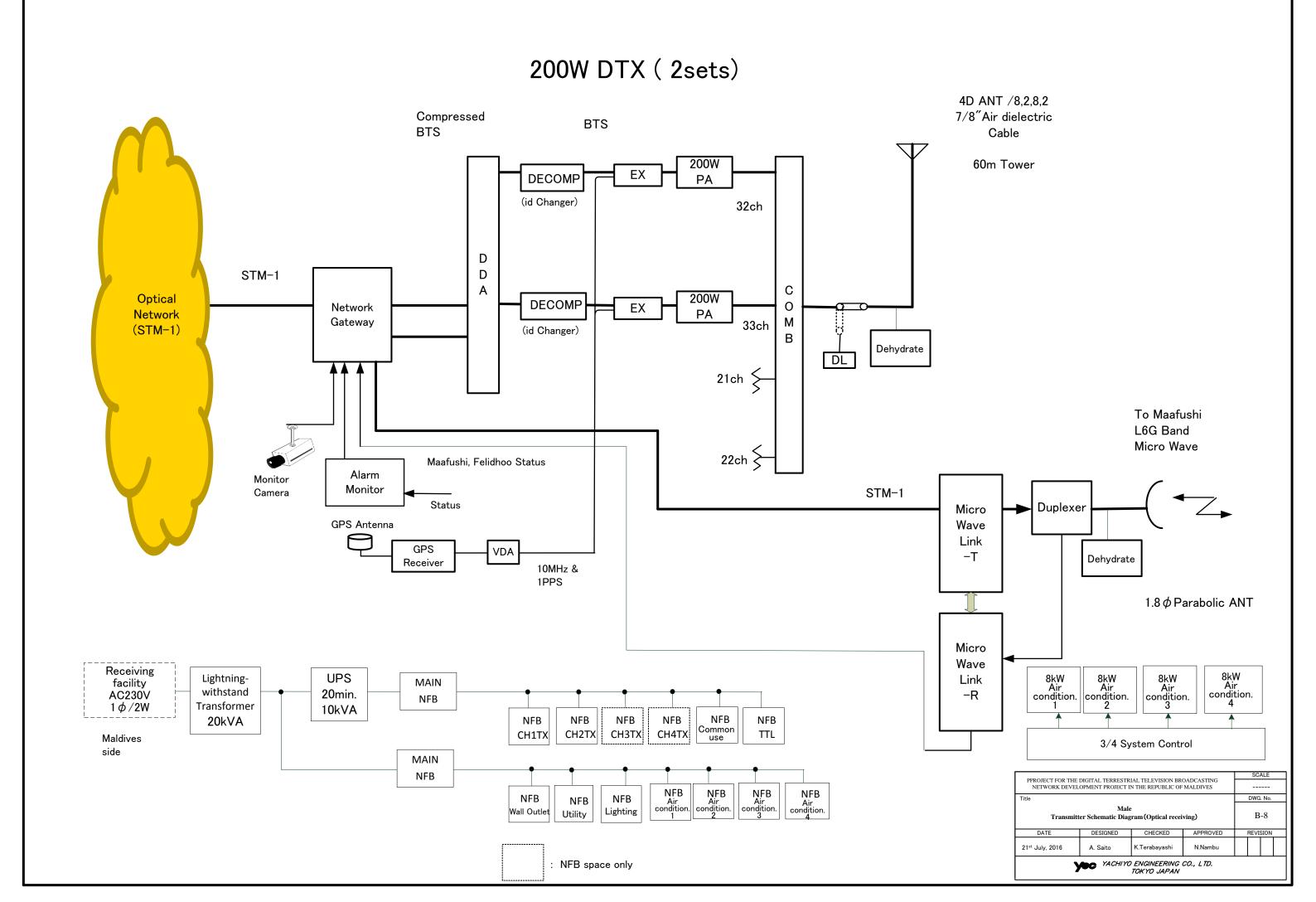


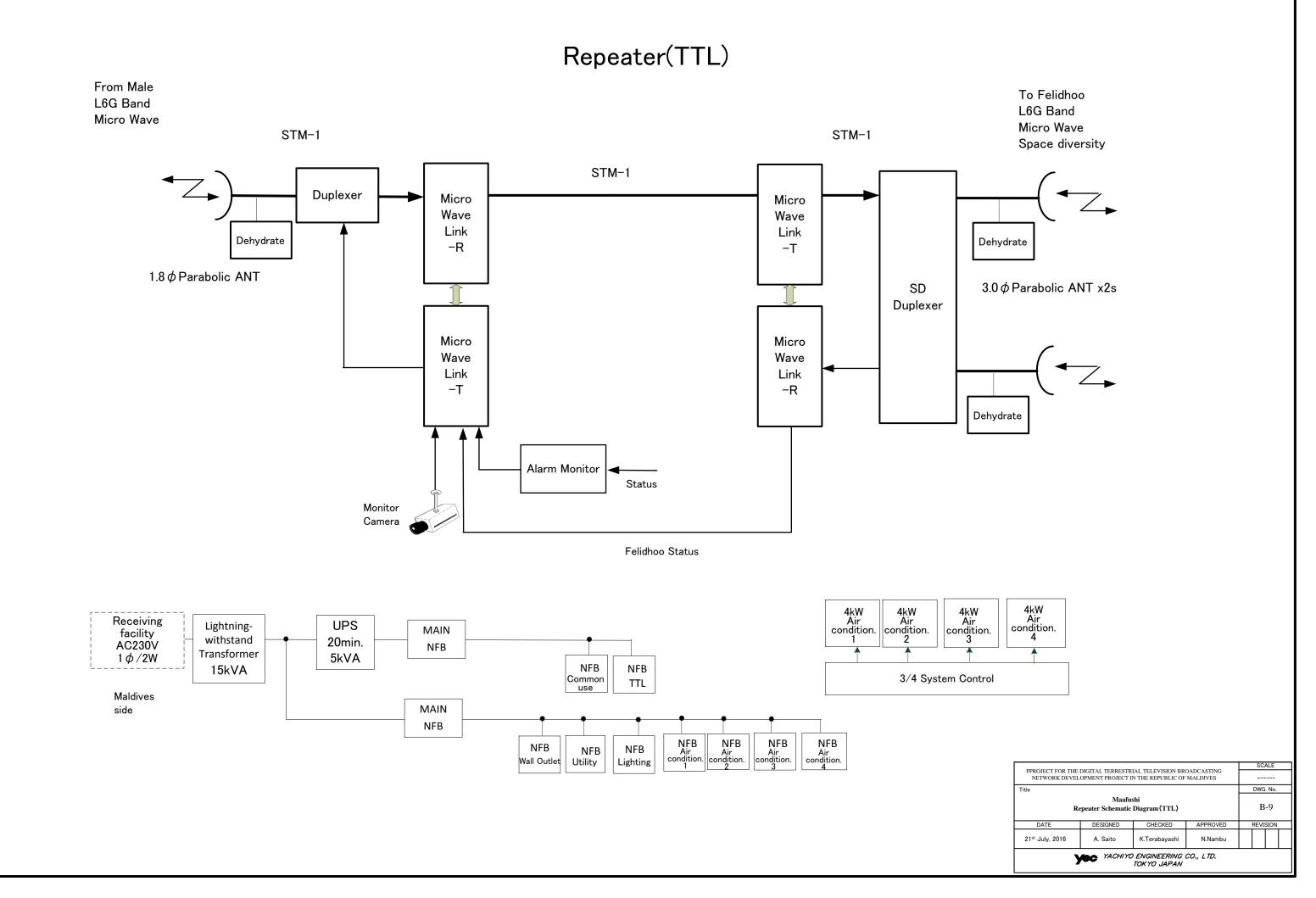
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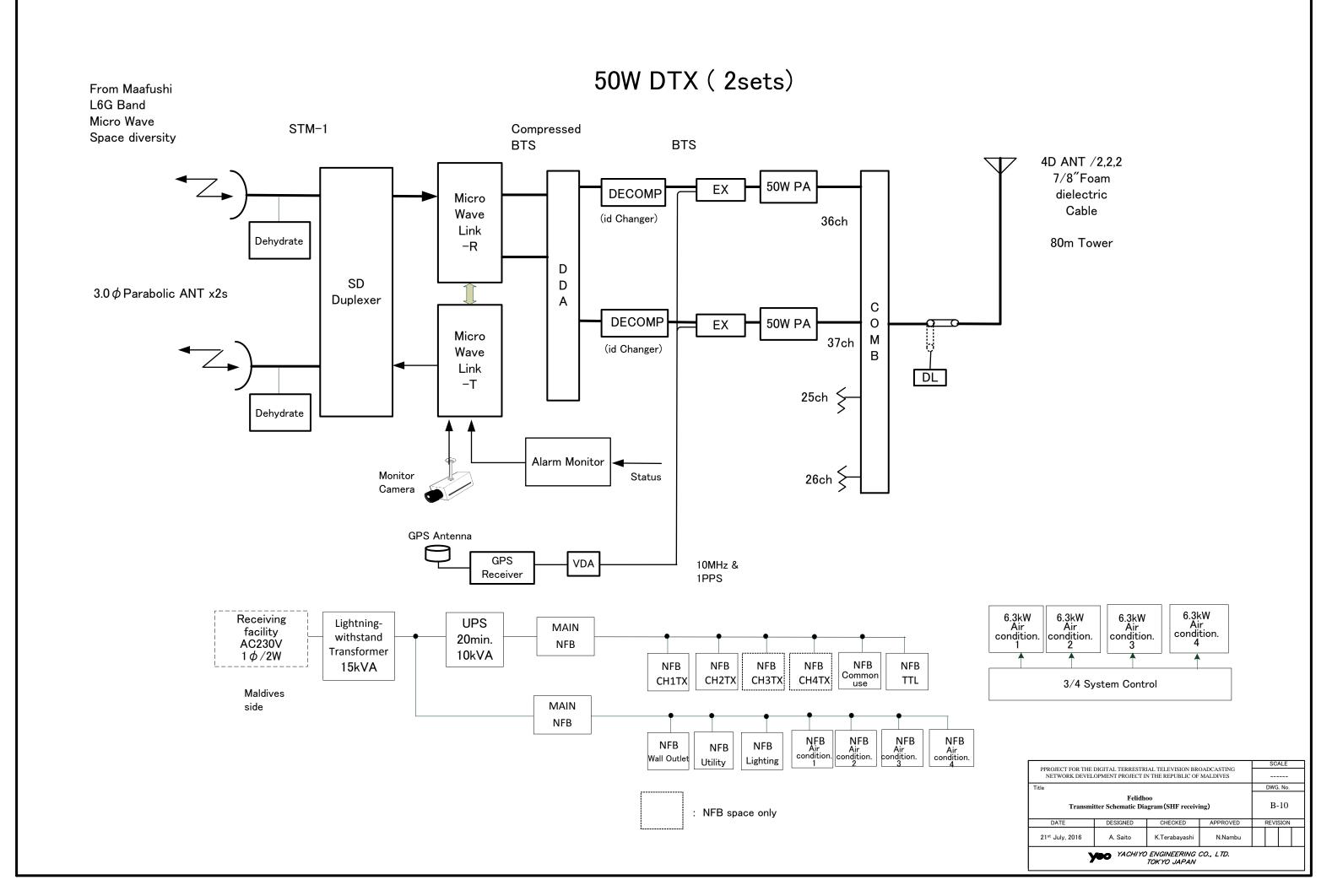


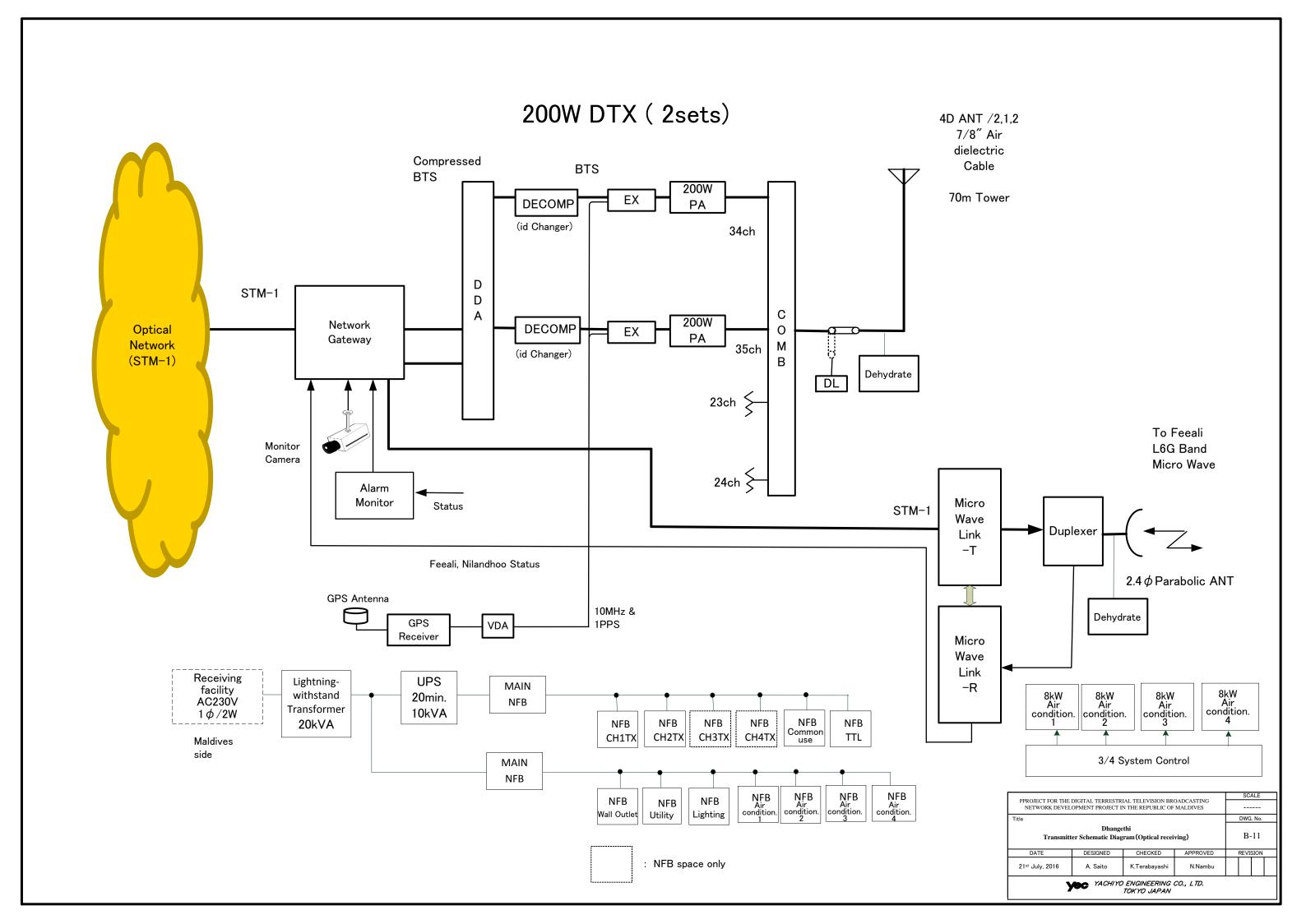


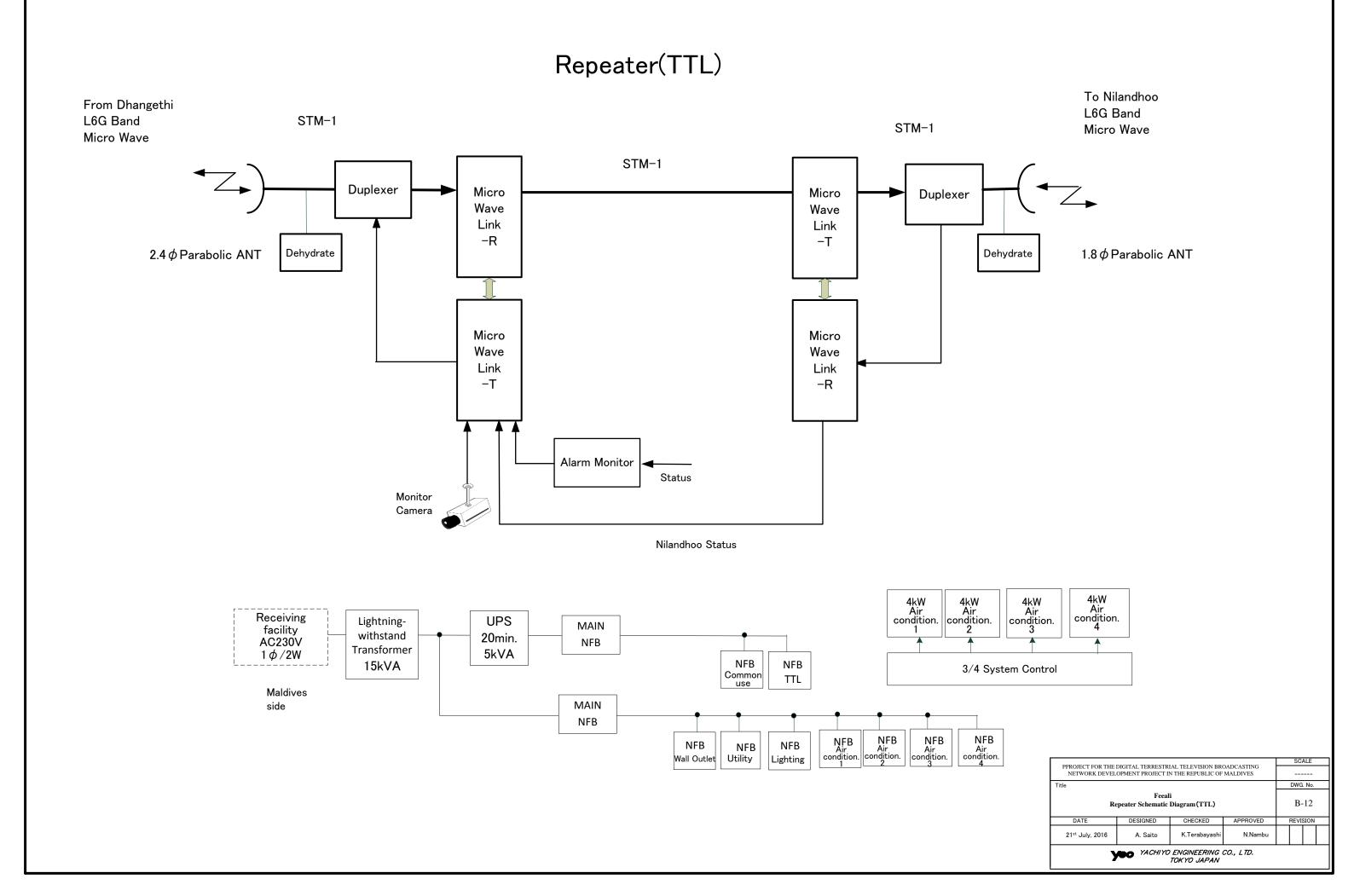




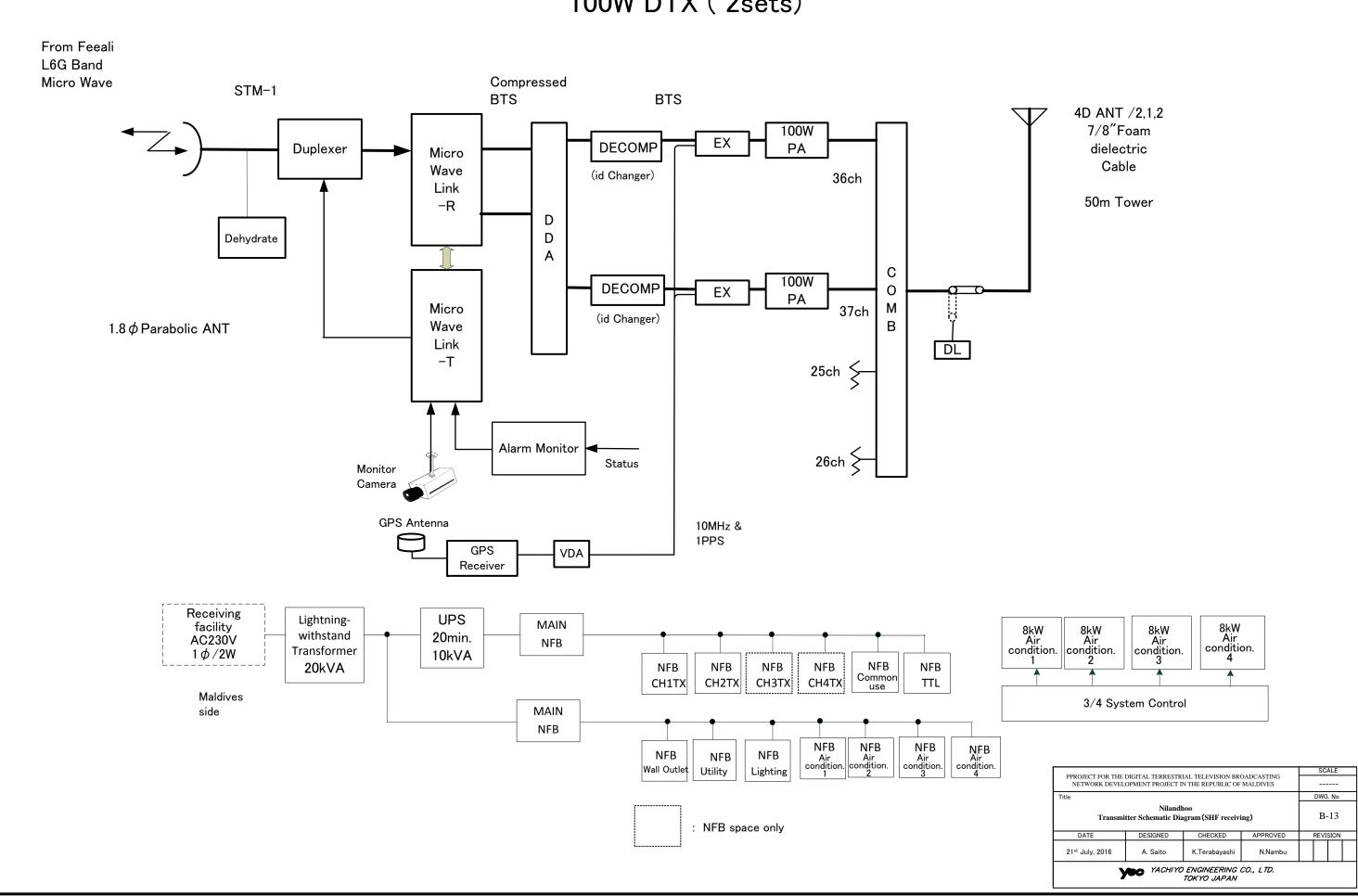


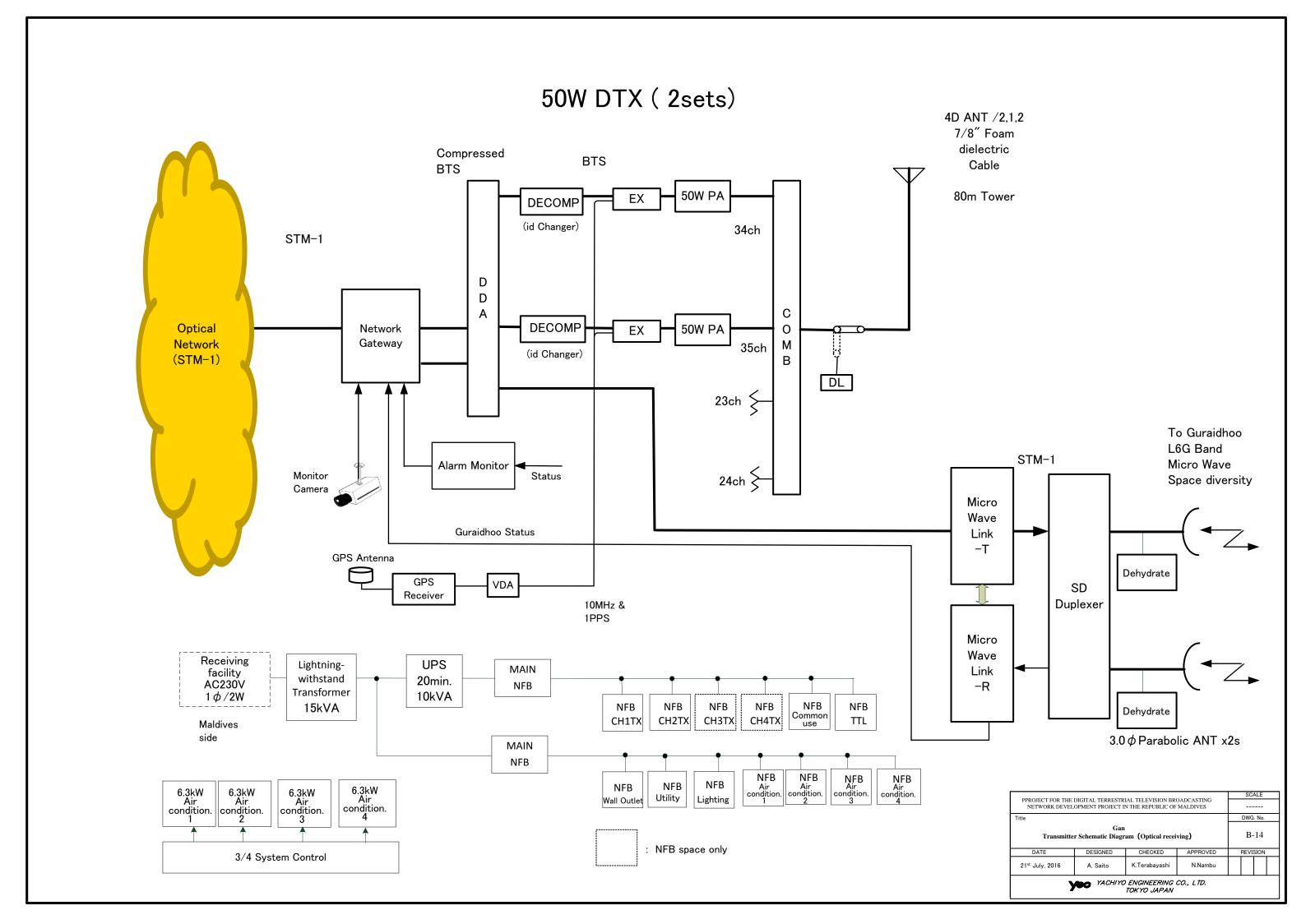


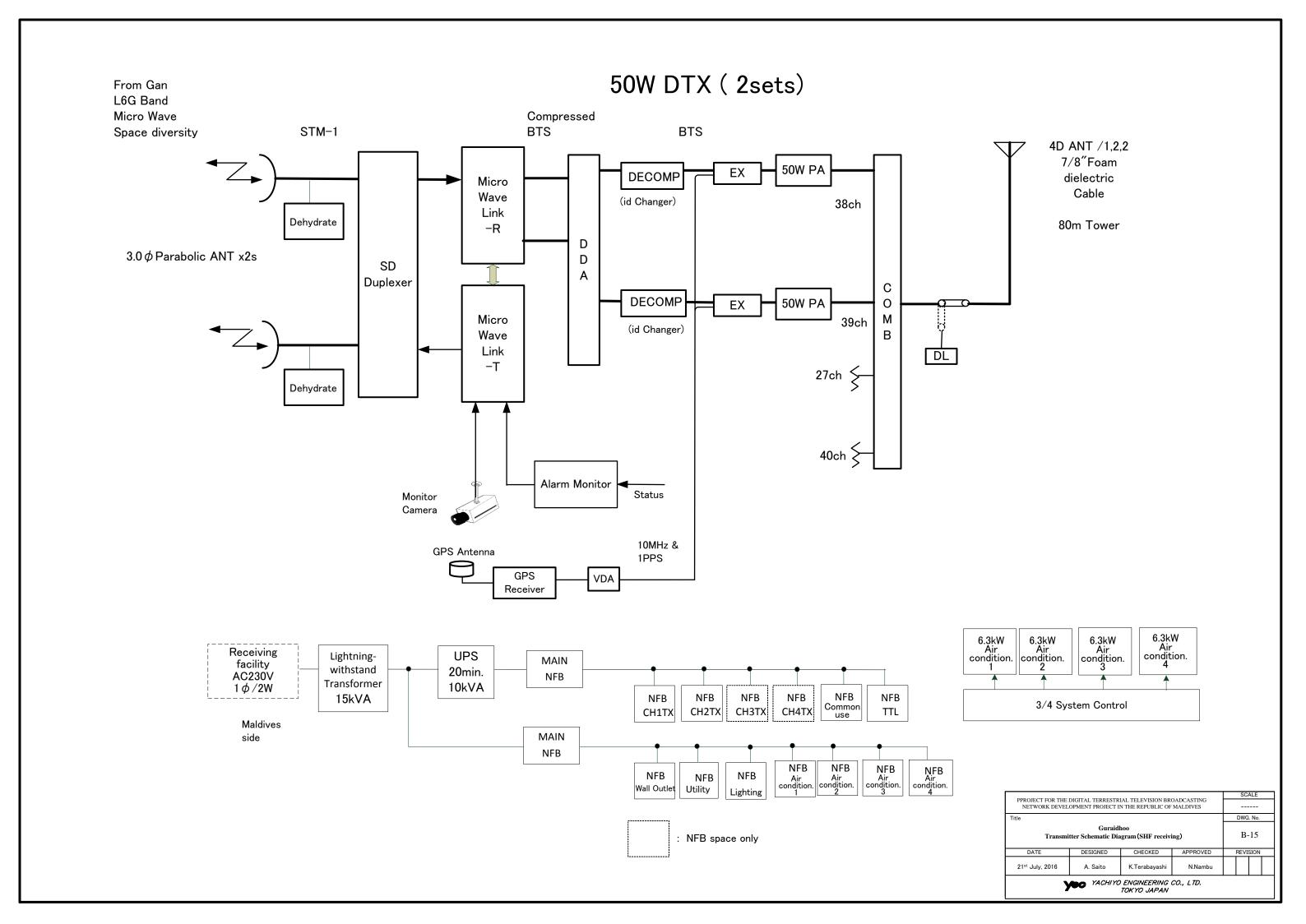


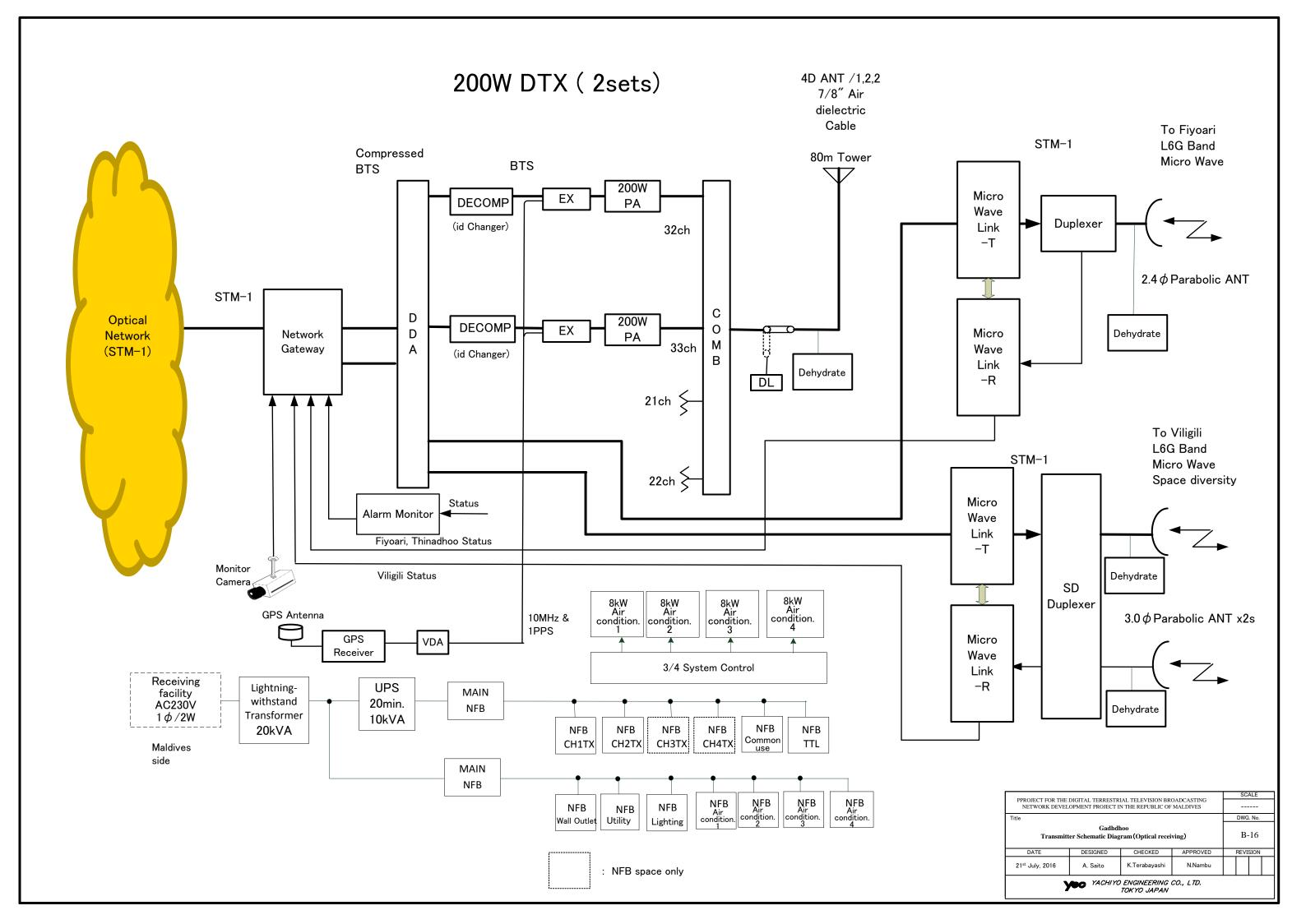


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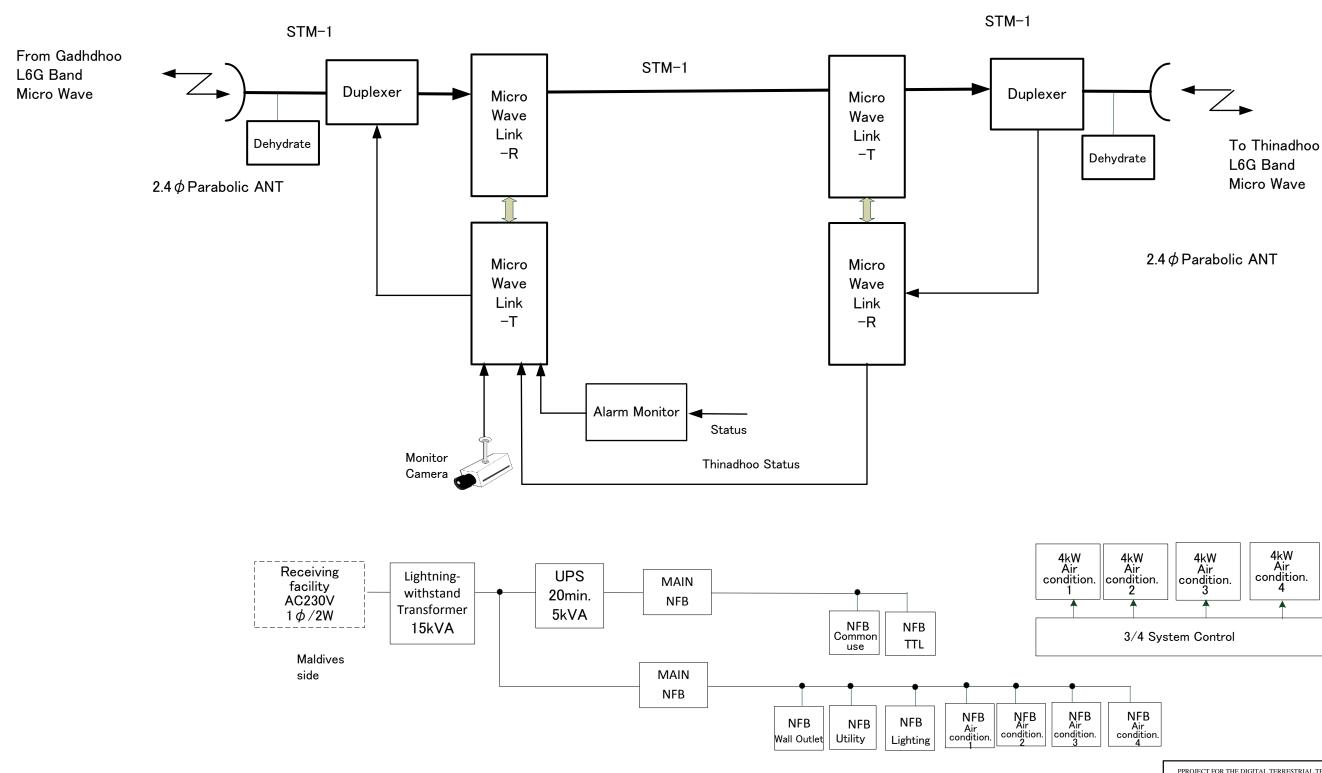






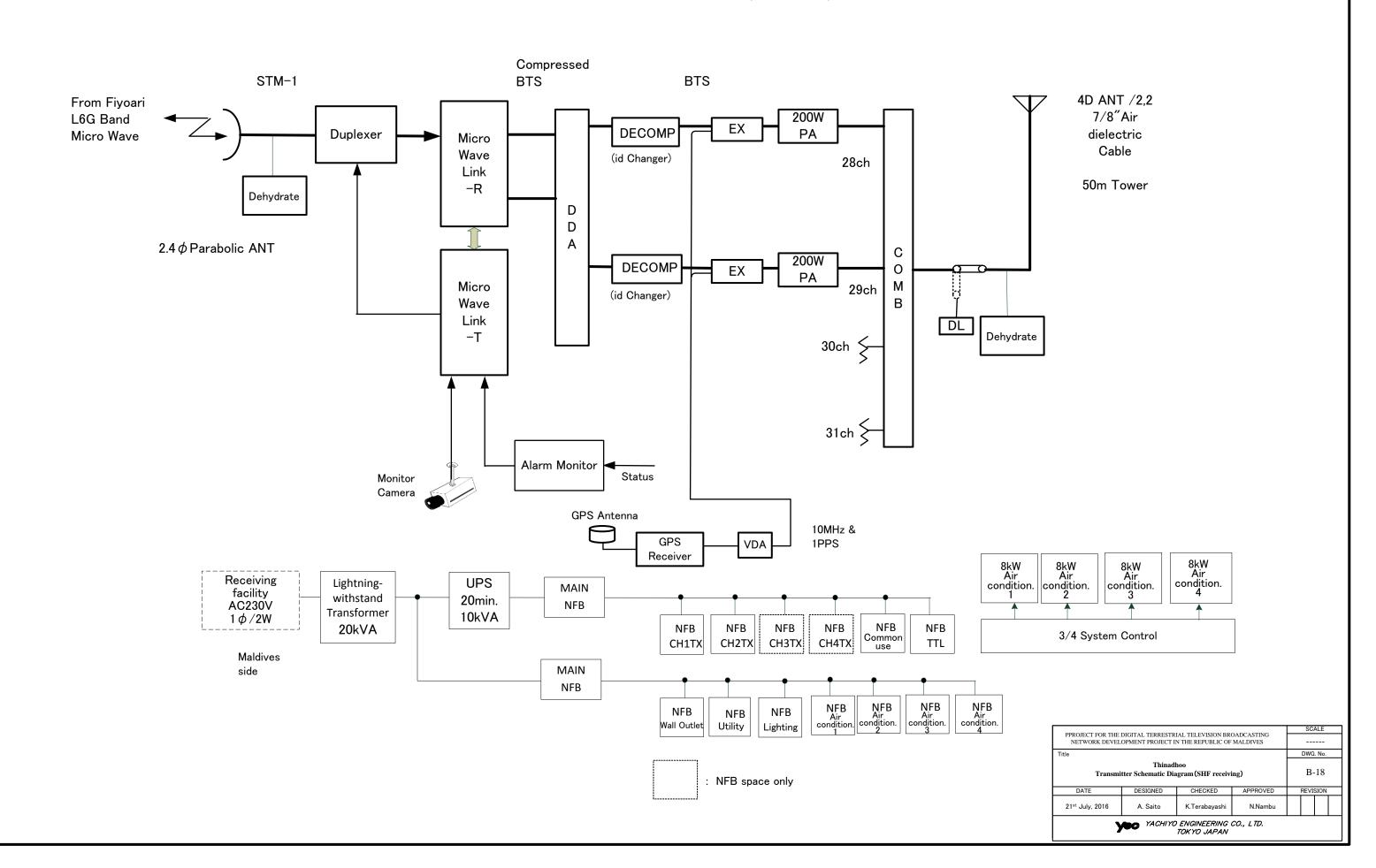


# Repeater(TTL)



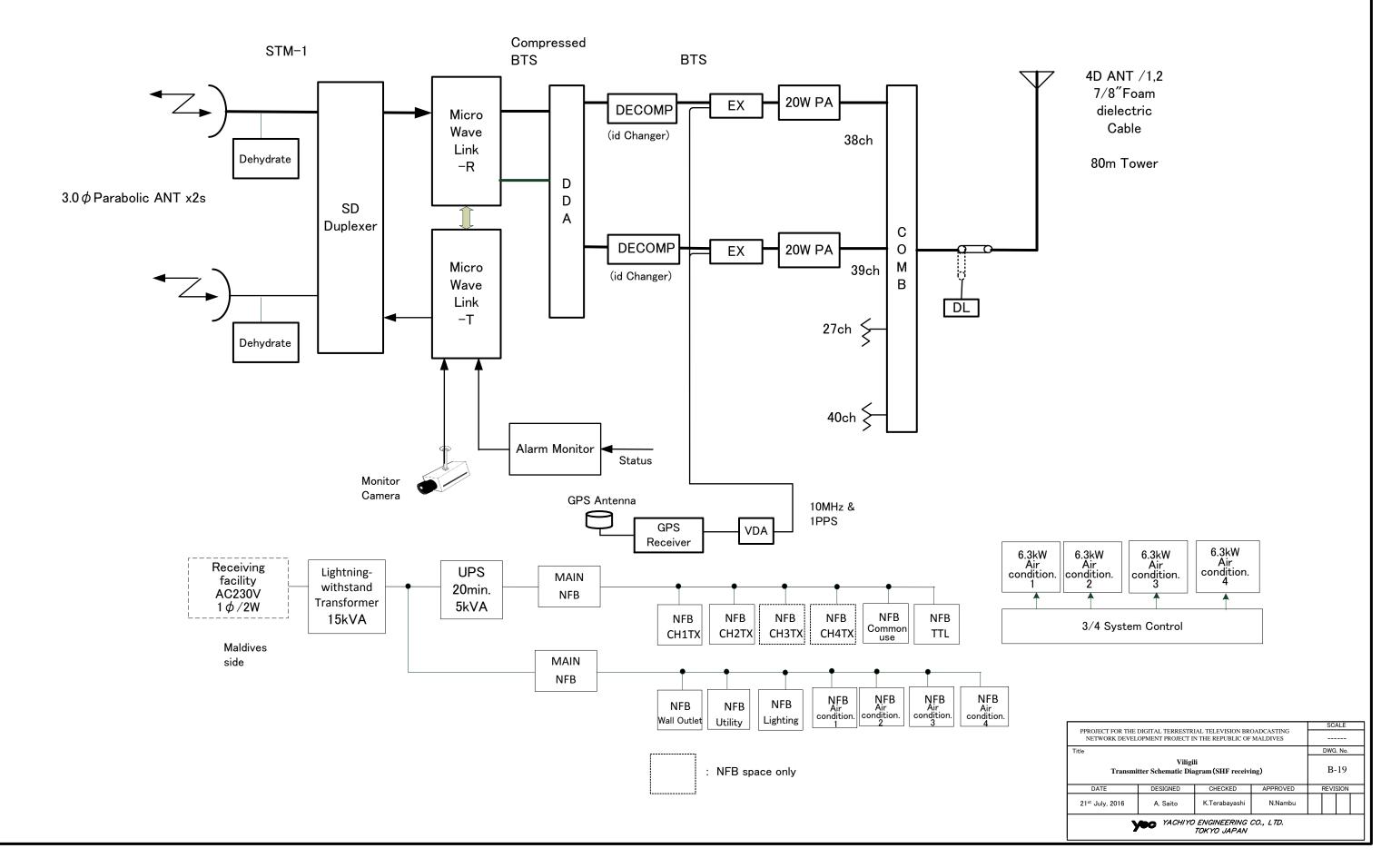
itle				DWG	. No.
Fiyoari Repeater Schematic Diagram (TTL)					
DATE	DESIGNED	CHECKED	APPROVED	REVI	SION
21st July, 2016	A. Saito	K.Terabavashi	N.Nambu		

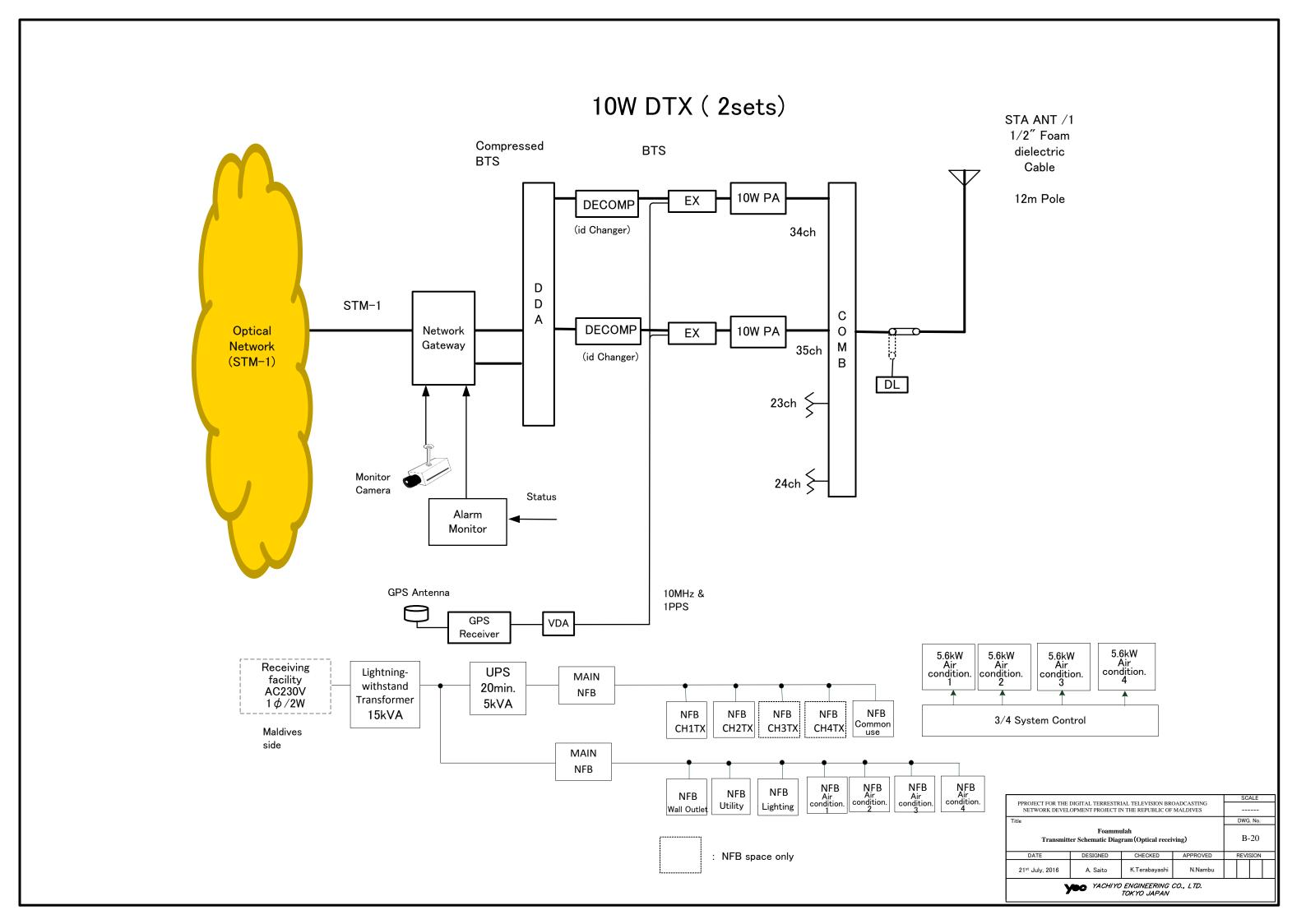
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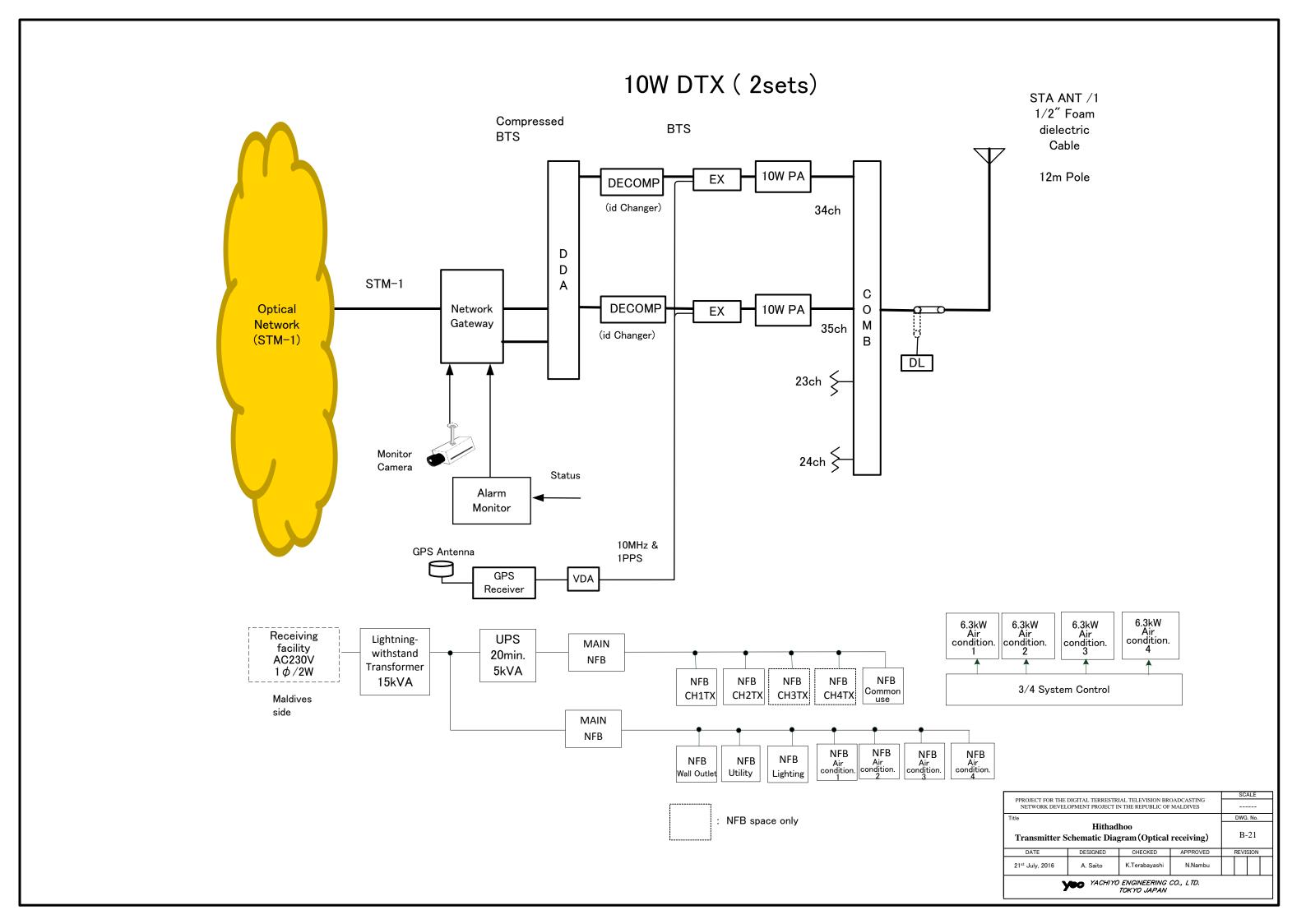


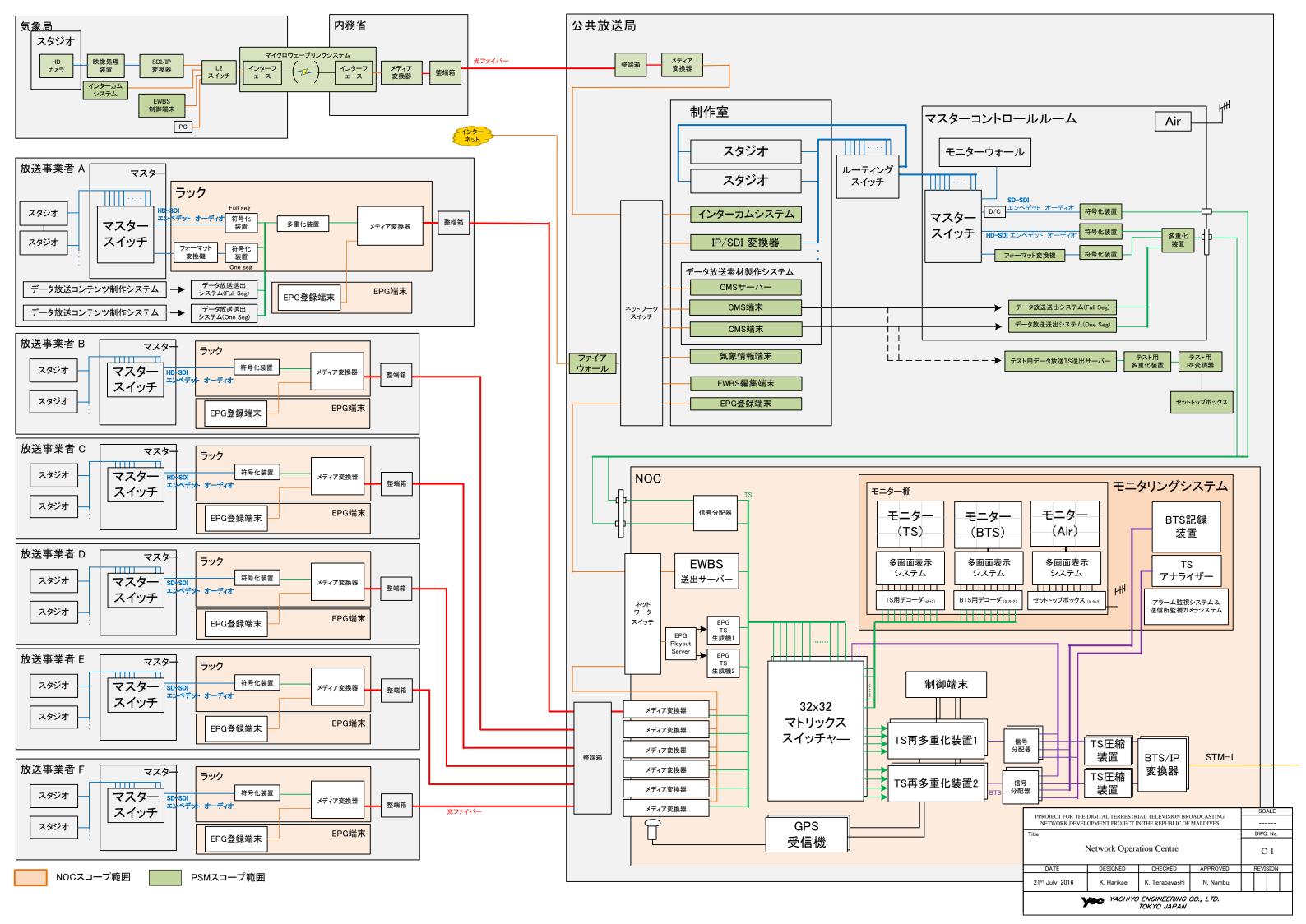
From Gan L6G Band Micro Wave Space diversity

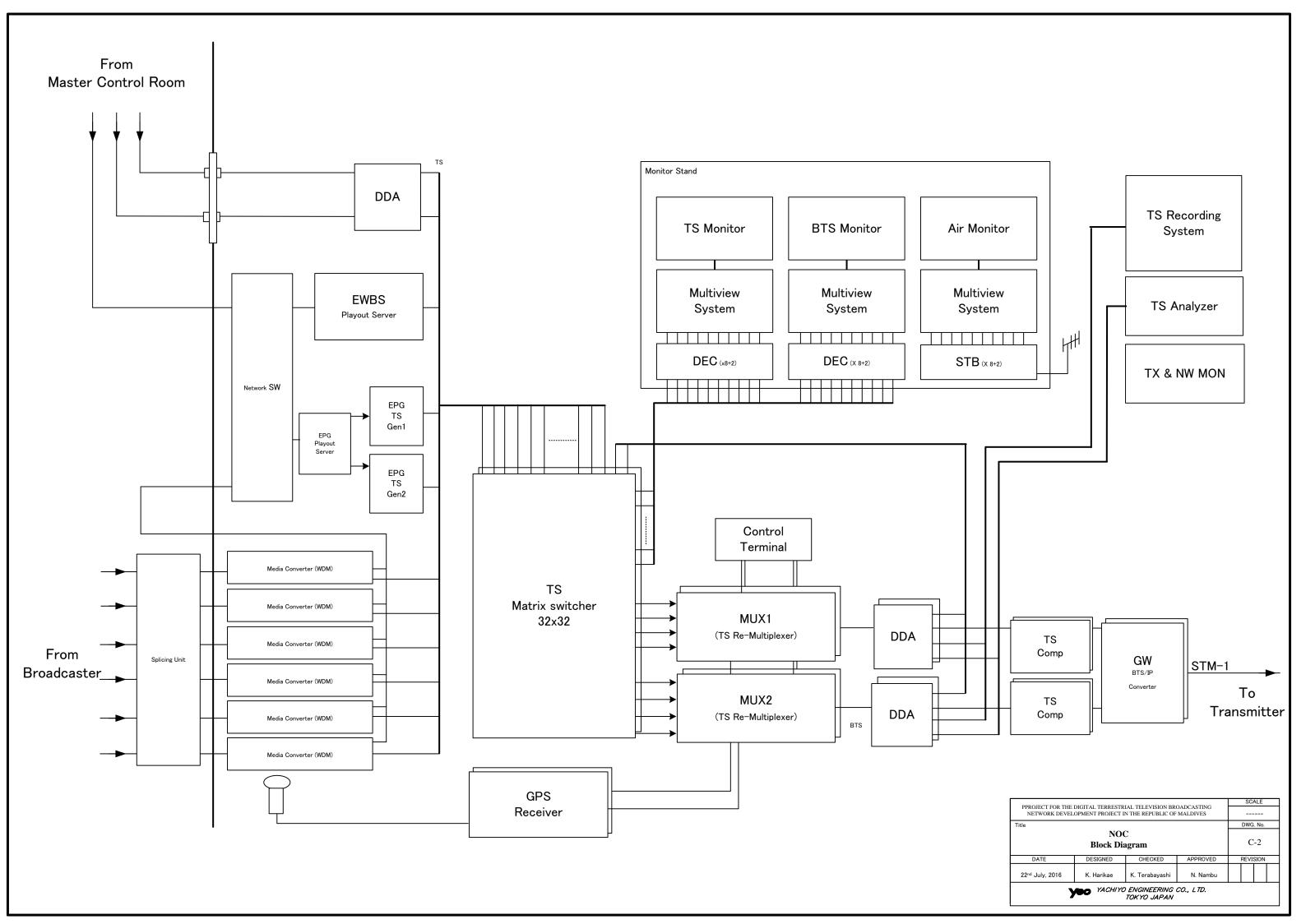
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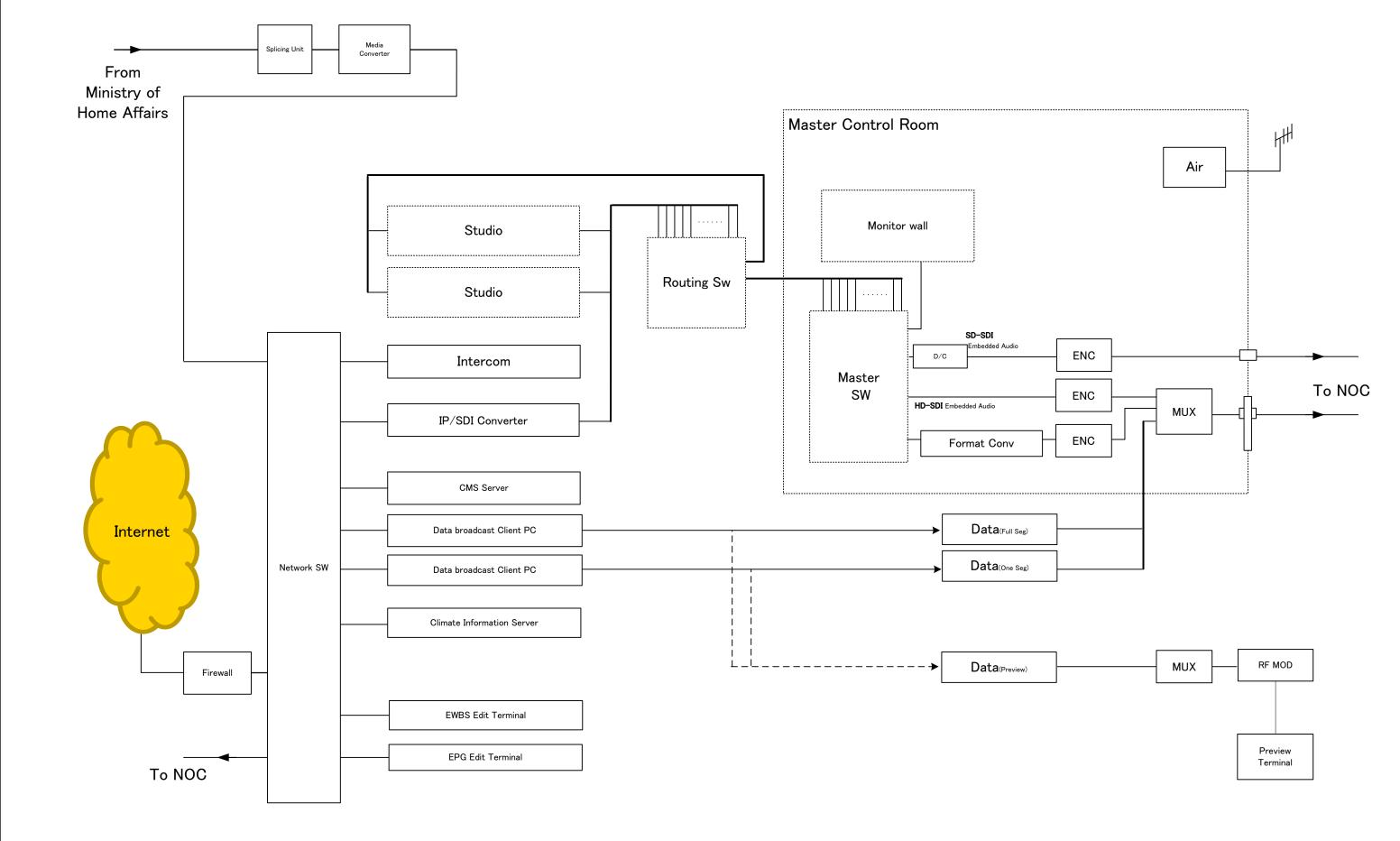




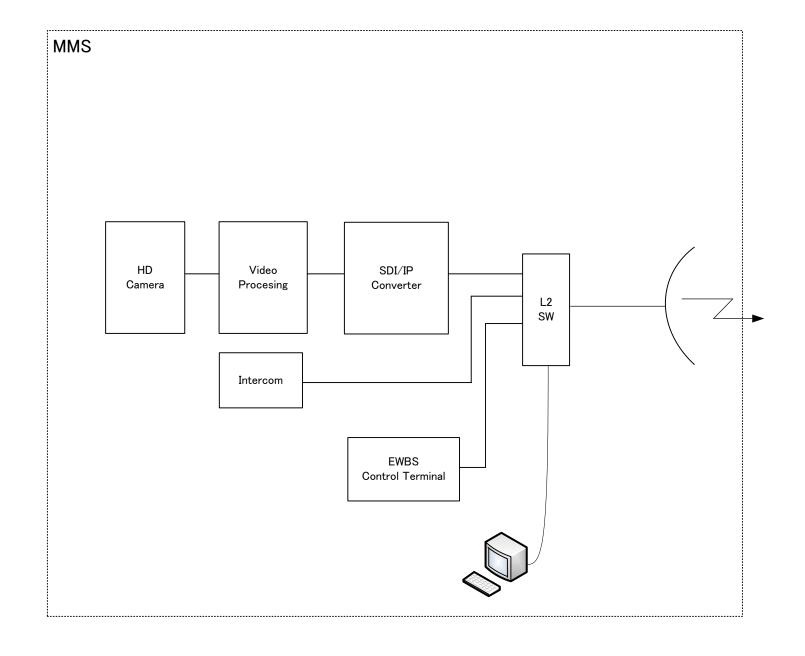


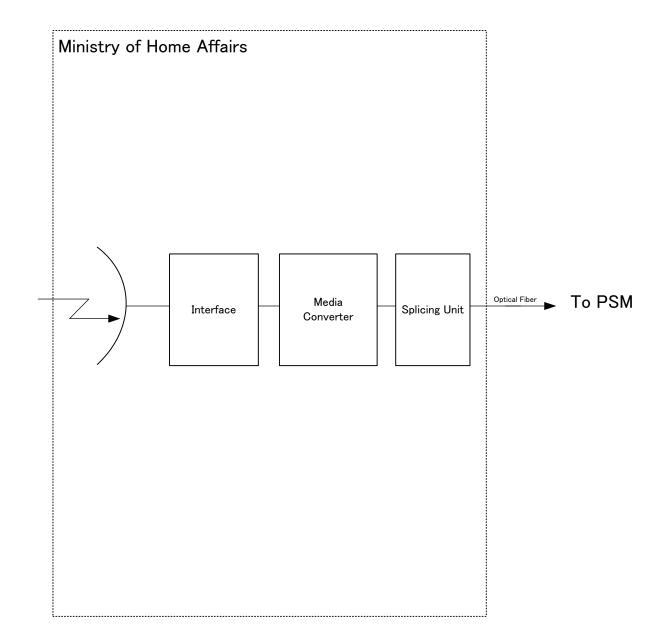




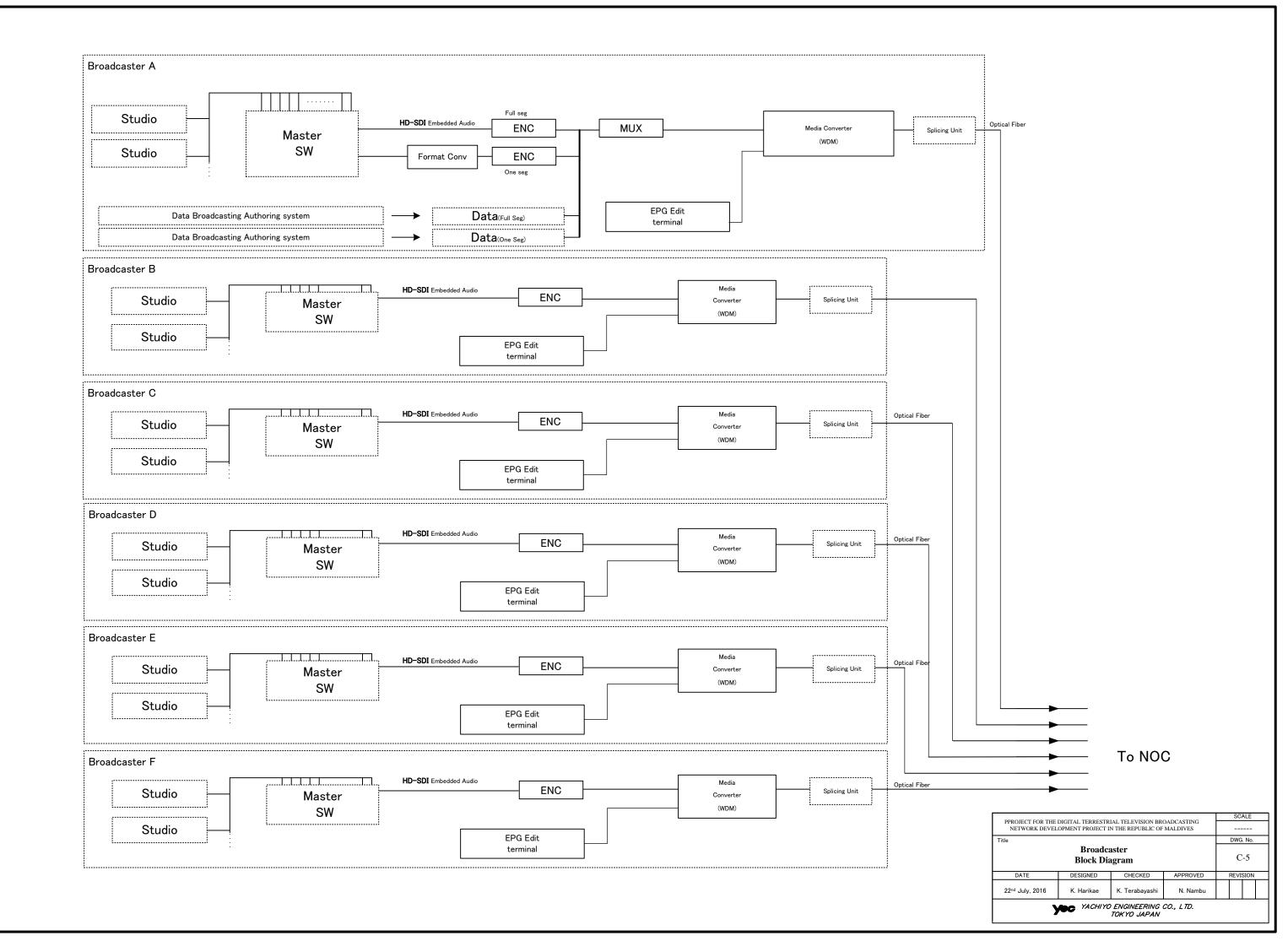


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PPROJECT FOR THE DIGITAL TERRESTRIAL TELEVISION BROADCASTING NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF MALDIVES								
Title					DWG	i. No.		
PSM Block Diagram					C	:-3		
DATE	DESIGNED	CHECKED	APPROVED		REVI	SION		
22 <sup>nd</sup> July, 2016	22 <sup>nd</sup> July, 2016 K. Harikae K. Terabayashi N. Nambu							
YACHIYO ENGINEERING CO., LTD. TOKYO JAPAN								





DDDOIECT EOD THE	SCA	ALE			
PPROJECT FOR THE DIGITAL TERRESTRIAL TELEVISION BROADCASTING NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF MALDIVES					
Title				DWG	. No.
MMS & MoHA Block Diagram					-4
DATE	DESIGNED	CHECKED	APPROVED	REVIS	SION
22 <sup>nd</sup> July, 2016 K. Harikae K. Terabayashi N. Nambu					
YACHIYO ENGINEERING CO., LTD. TOKYO JAPAN					

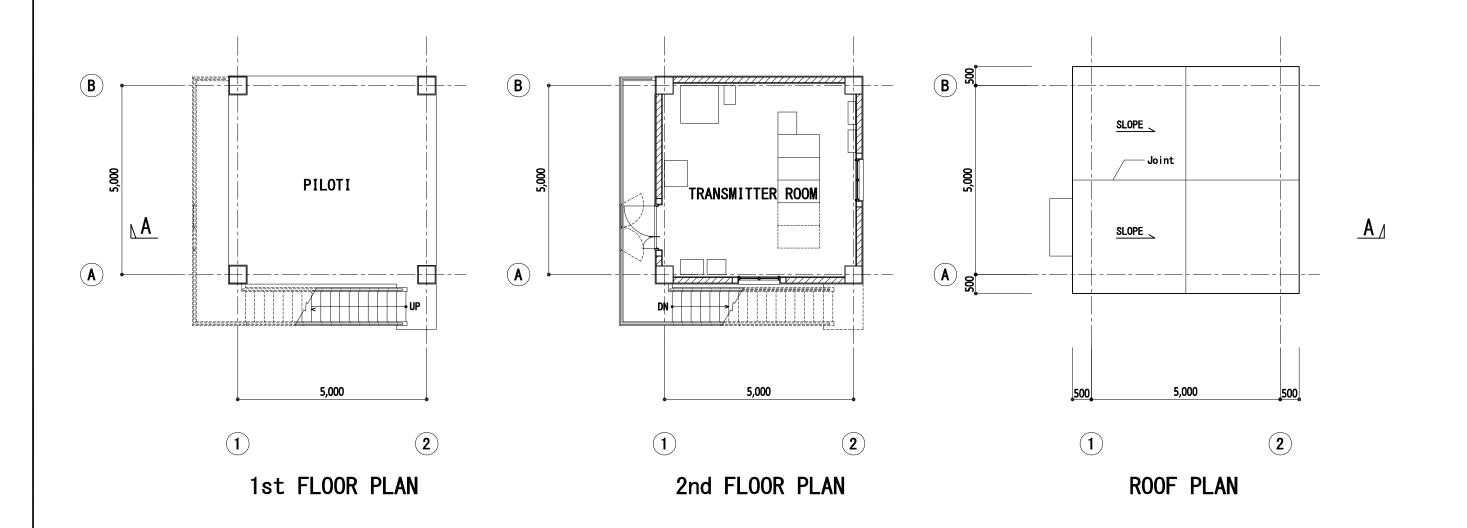


### EXTERIOR FINISHING SCHEDULE

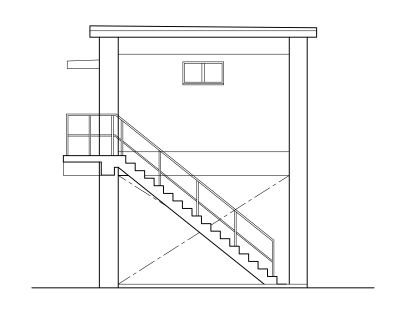
LOCATION	
R00F	WATERPROOF COATING ON CONCRETE ROOF SLAB PROTECTION CONCRETE 80-130mm SLOPE
WALL	PAINT (A. E. P) on MORTAL STEEL TROWEL on CONCRETE BLOCK t=150mm
COLUMN BEAM	PAINT (A. E. P) on MORTAR STEEL TROWEL
FITTING	STEEL DOOR, ALUMINUM WINDOW

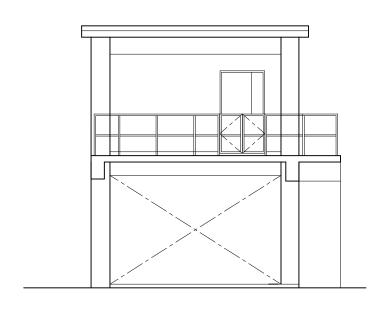
### EXTERIOR FINISHING SCHEDULE

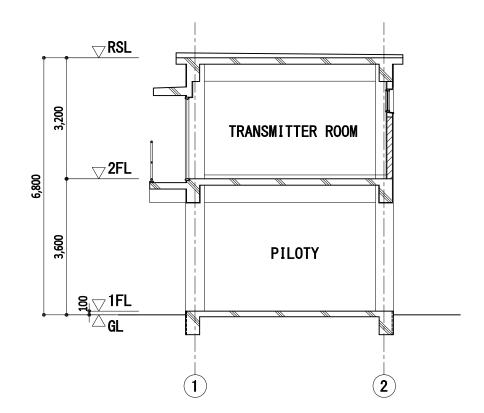
	PILOTYI		TRANSMITTER ROOM
FL00R	CONCRETE STEEL TROWEL FINISH	FL00R	DUSTPROOF COATING ON CONCRETE SLAB
BASEBOARD		BASEBOARD	MORTAL STEEL TROWEL H=100mm
WALL		WALL	PAINT (E. P) on MORTAL STEEL TROWEL
CEILING	PAINT (A. E. P) on EXPOSED CONCRETE SLAB	CEILING	PAINT (E. P) on EXPOSED CONCRETE SLAB
COLUMN Beam	PAINT (A. E. P) on MORTAR STEEL TROWEL	REMARKS	AIR-CONDITONING, LIGHTING FIXTURE, OUTLET SOCKET



PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG N	No.
		TRANSMITTER BUILDING	S=1/100					AA-01	1
		PLAN	3-1/100	yec ·	ACHIYO ENGINI	EERING CO., LTI	D.	REV.	0



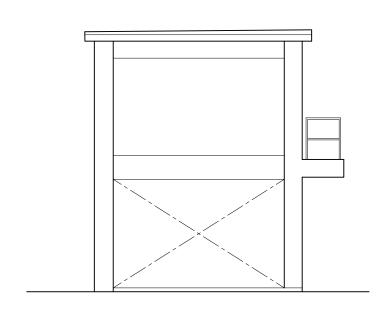


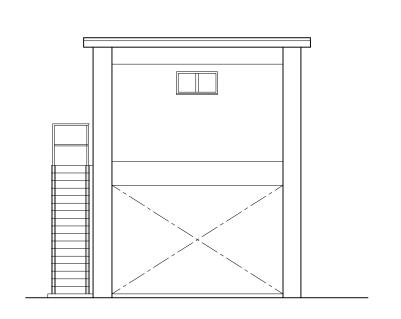


A LINE ELEVATION

1 LINE ELEVATION

A - A SECTION

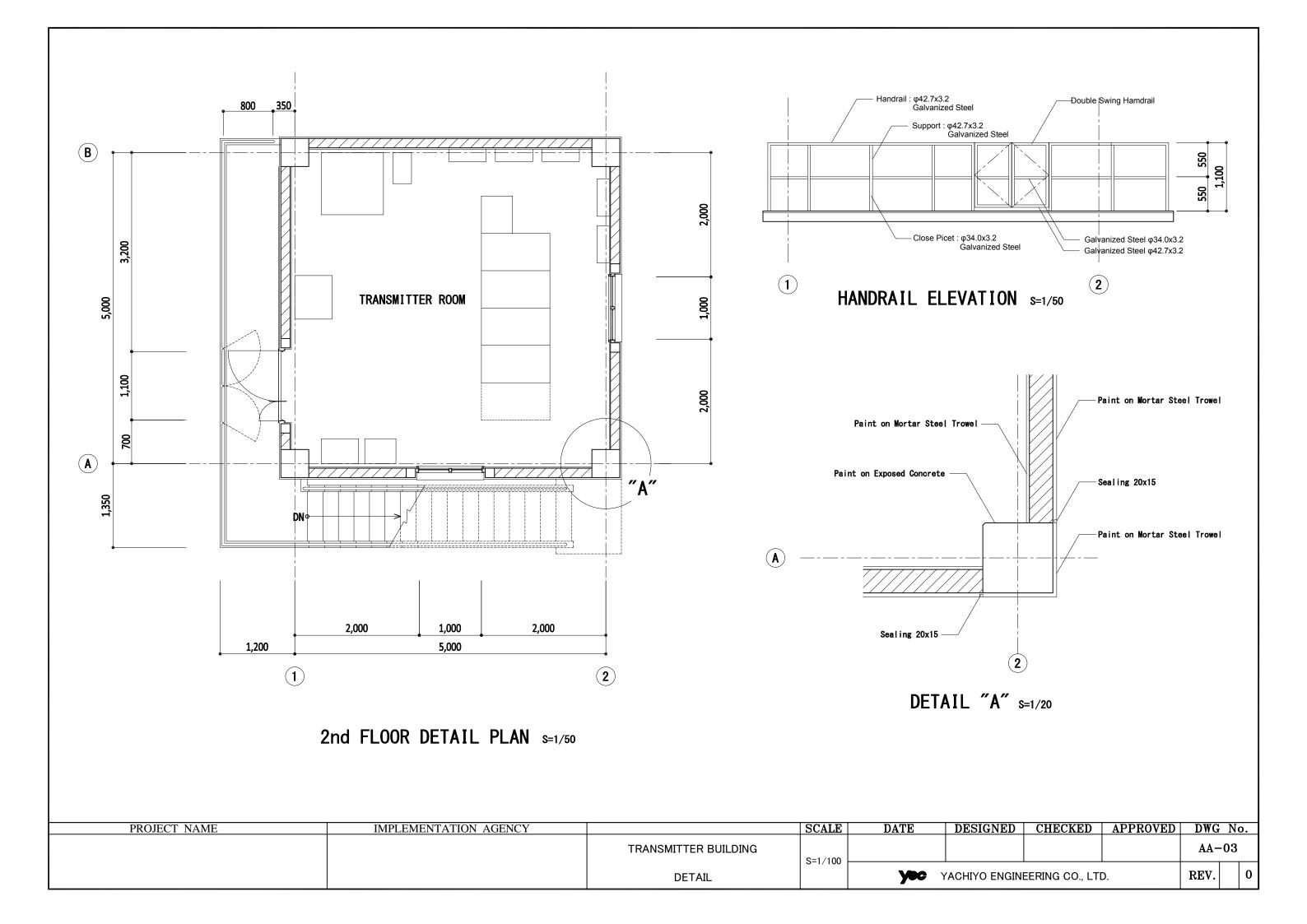


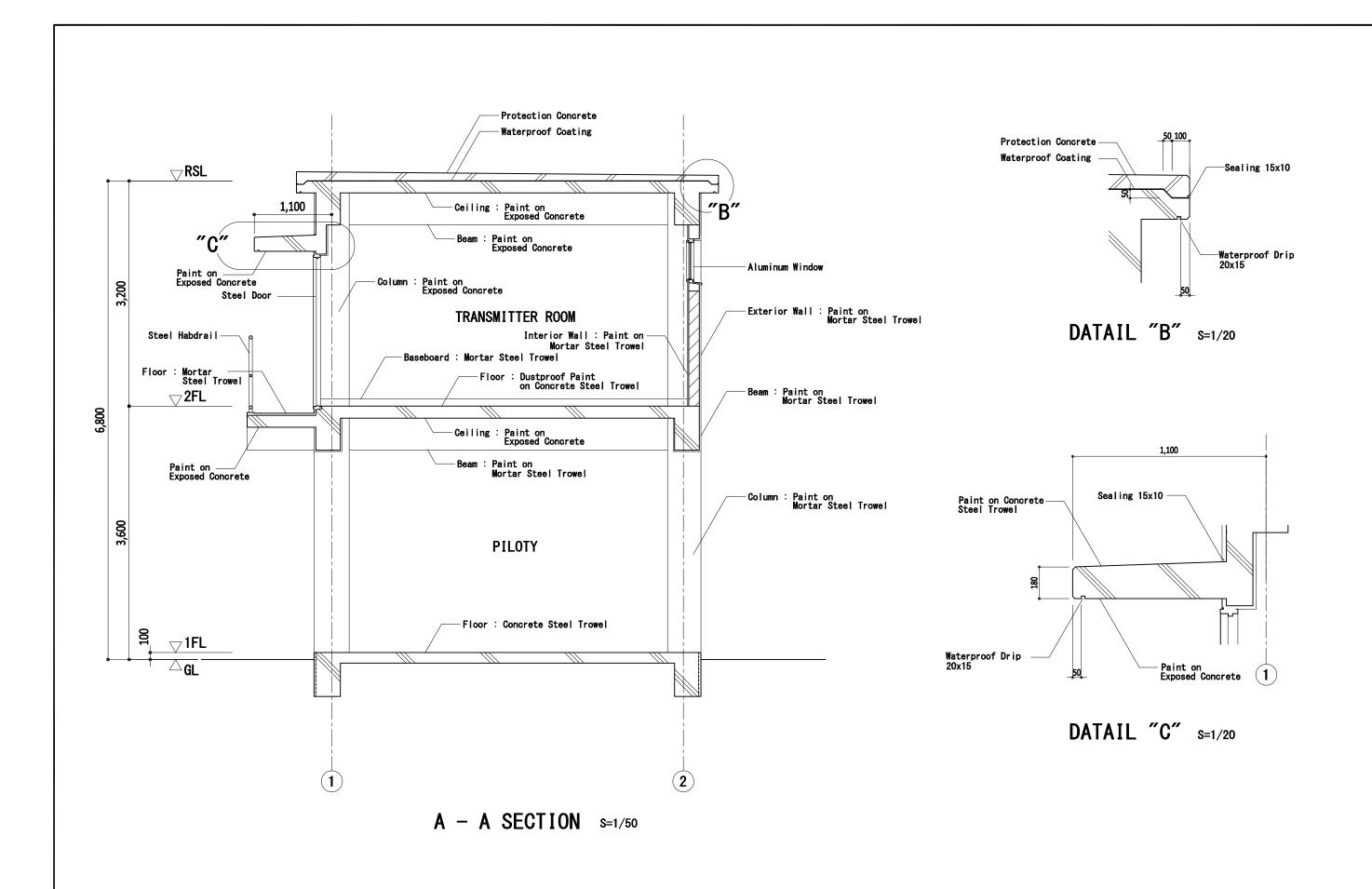


B LINE ELEVATION

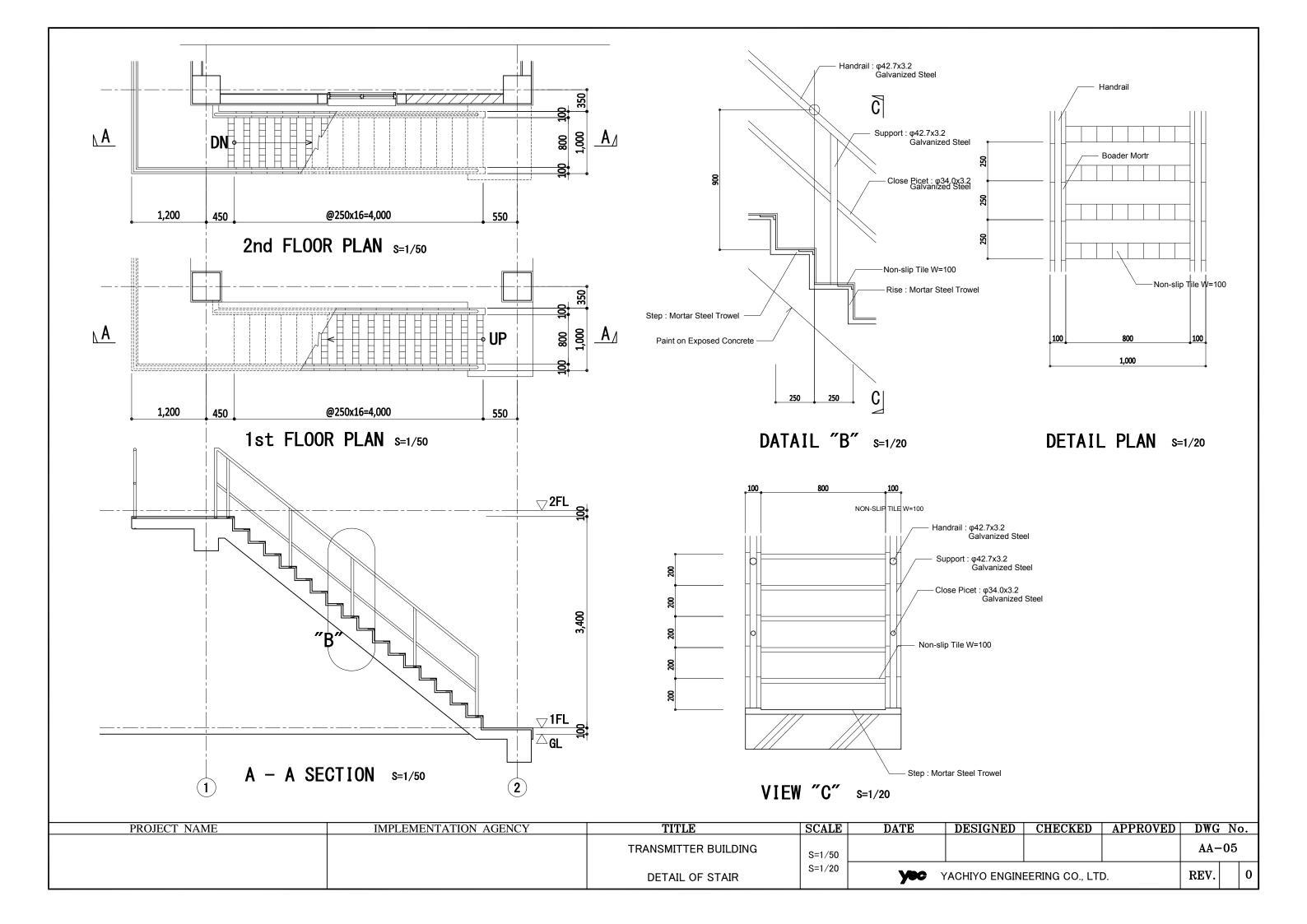
2 LINE ELEVATION

PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG	No.
		TRANSMITTER BUILDING	S=1/100					AA-0	02
		ELEVATION & SECTION	3-1/100	yec	ACHIYO ENGINE	EERING CO., LT	D.	REV.	0





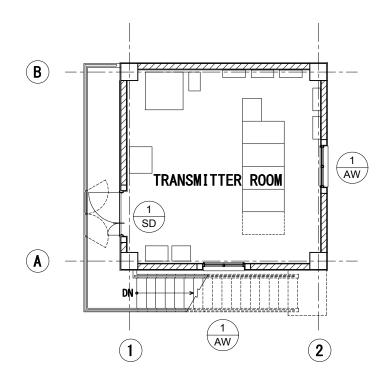
PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG	No.
		TRANSMITTER BUILDING	S=1/50					AA-0	<b>)4</b>
		ELEVATION & SECTION	S=1/20	yec	YACHIYO ENGINI	EERING CO., LTI	D.	REV.	0



## FITTING LIST

MARK • No.	1 SD X 1	1 X 2	
ELEVATION	1,300	1,000	
TYPE	DUOBLE SWING DOOR	FIXED WINDOW	
MATERIAL . FINISH	STEEL · OIL PAINT	ALUMINUM · ELECTRO COLOR	
GLASS		CLEARD GLASS t=5.0	
HARDWEAR	HINGE, LEVER HANDLE, DOOR CLOSER, KEYLOCK	READY-MADE HARDWEAR	
REMARK			

NOTE :1. Master key system should be applied.
2. Door stopper should be installed for all doors.



FITTING KEY-PLAN

IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG	No.
	TRANSMITTER BUILDING				AA-(	06		
	FITTING SCHEDULE	S=1/100	yec \	ACHIYO ENGIN	EERING CO., LT	D.	REV.	0

MEMBER SCHEDULE						
2-1C1	450x450					
RG1	300x500	B1	300x500			
2G1	300x550					
2G2	350x500	S1	t=150+20			
CG1	350x400	CS1	t=150+20			
FG1	300x600	STAIR SLAB	t=180+20			
F1	2300x2300x350					
F2	2500x2500x350					

PROJECT NAME

MATERIAL					
UNLESS OTHERWISE NOTED					
CONCRETE	1stF-RF Fc=21Mpa				
PLAIN CONCRETE	Fc=18Mpa				
RE-BAR	D10-D16:SD295A				
	D19-D22:SD345				
ALLOWABLE SOIL BEARING CAP	ACITY 70kN/m2				

IMPLEMENTATION AGENCY

#### **GENERAL NOTES**

- 1) /// INDICATED ADDITIONAL CONCRETE
- 2) CONCRETE BLOCK t=150
- 3) OPENING
- 4) INDICATED REINFORCED CONCRETE SLAB-ON GROUND

SCALE

S=1/100

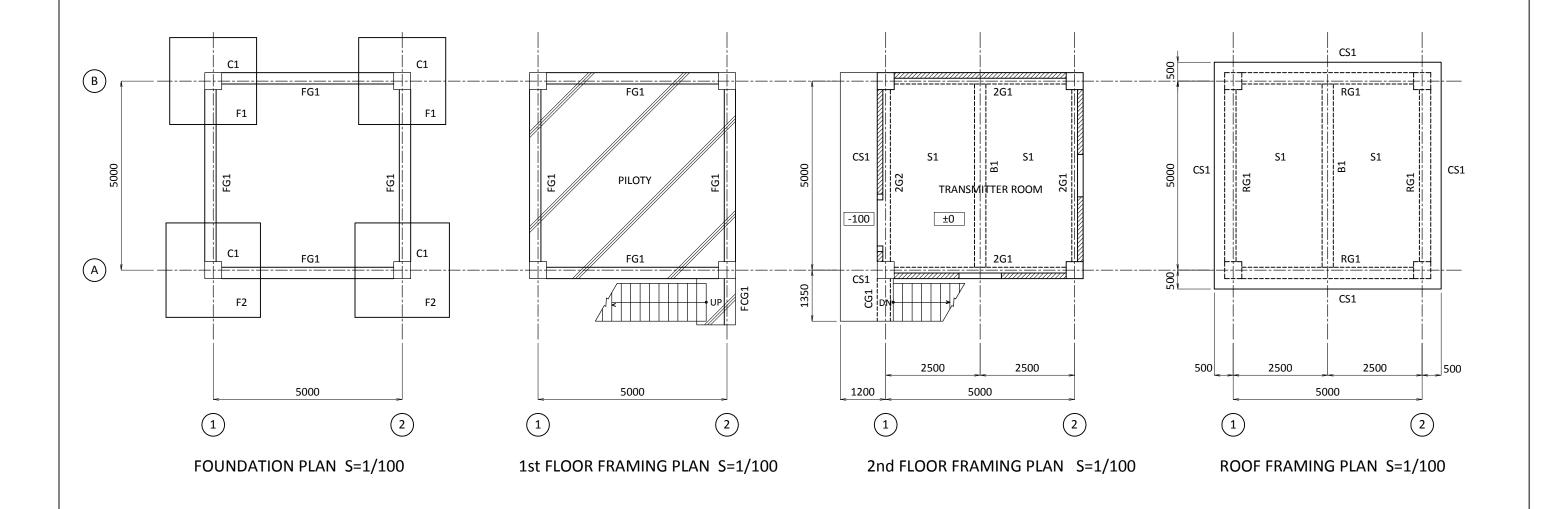
DATE

DESIGNED | CHECKED | APPROVED | DWG No.

YACHIYO ENGINEERING CO., LTD.

AS-01

REV.

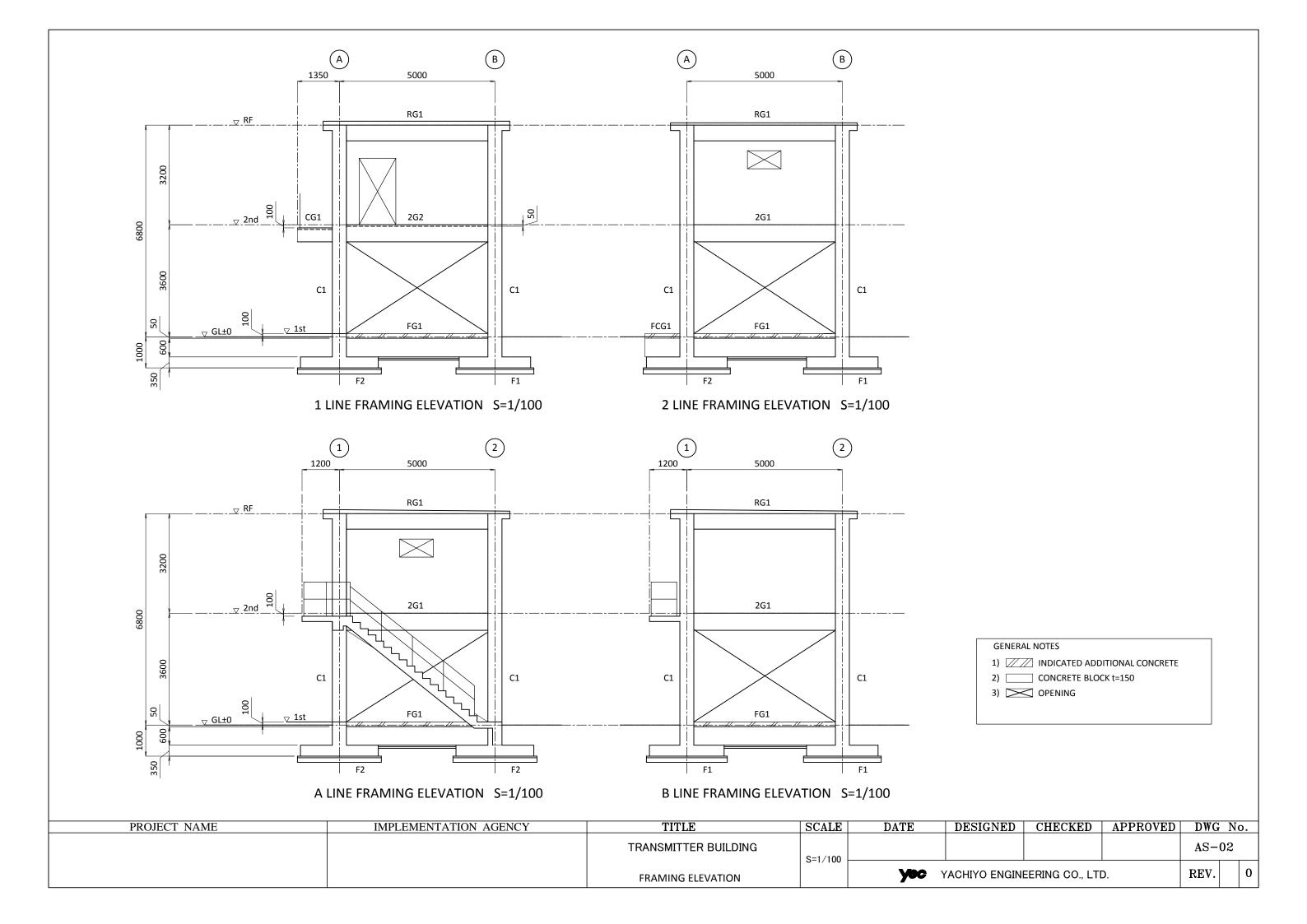


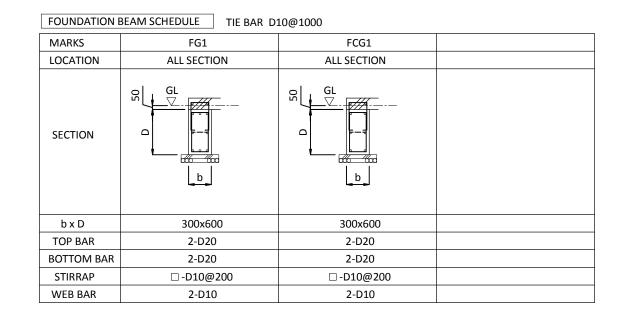
TITLE

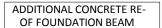
FOUNDATION PLAN AND

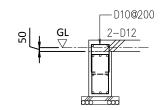
TRANSMITTER BUILDING

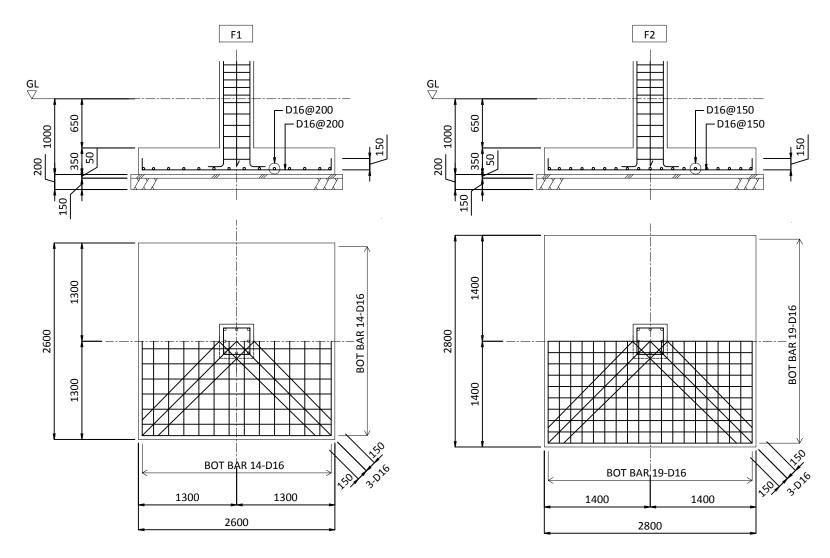
1st, 2nd, ROOF FRAMING PLAN







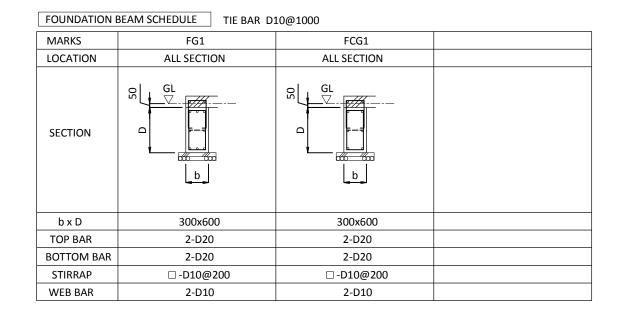


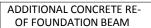


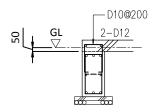
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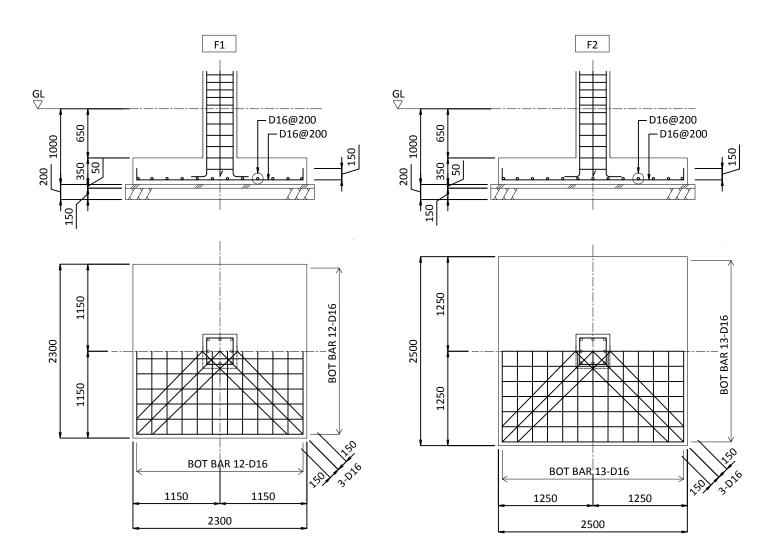
LOCATION NUMBER	LOCATION	REMARK
7	Naifaru	
15	Guraidhoo	

PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG N	Vo.		
		TRANSMITTER BUILDING	444 0444 DI F 004 DE 4 DIA GENERALITA (COLA)	411 011 4 D F 6 D H D F 1 D H G 6 1 D 1 0   T 1 C 0   1 1 / C	14-2					AS-03	;
		ALLOWABLE SOIL BEARING CAPACITY 60kN/m2 FOUNDATION SCHEDULE	S=1/50	yec	YACHIYO ENGINI	EERING CO., LTI	D.	REV.	0		





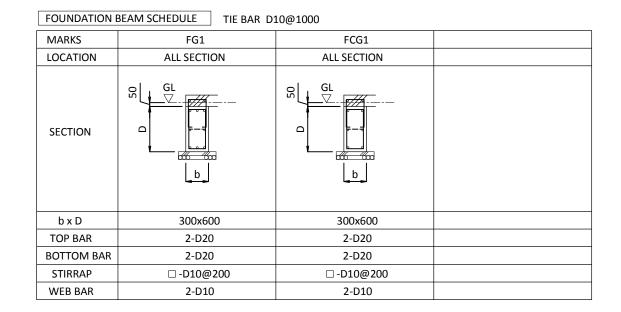


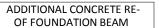


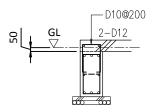
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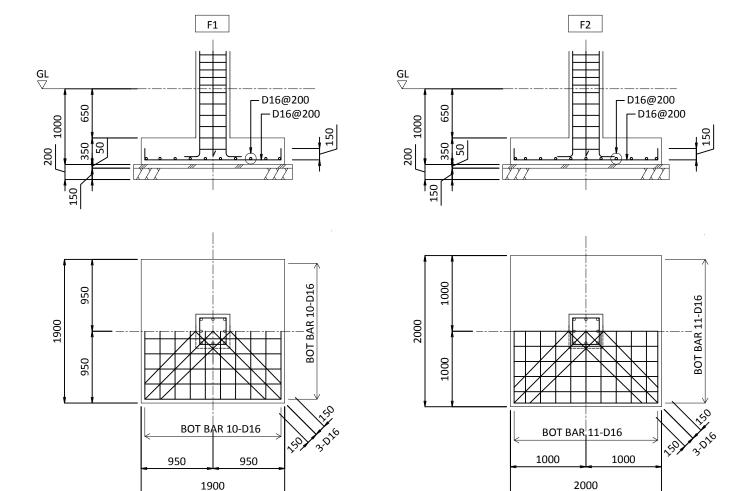
LOCATION NUMBER	LOCATION	REMARK		
9	Maafushi			
	1 LOCATION			

PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG	No.
		TRANSMITTER BUILDING						AS-0	04
		ALLOWABLE SOIL BEARING CAPACITY 70kN/m2 FOUNDATION SCHEDULE	S=1/50	YACHIYO ENGINEERING CO., LTD.		D.	REV.	0	





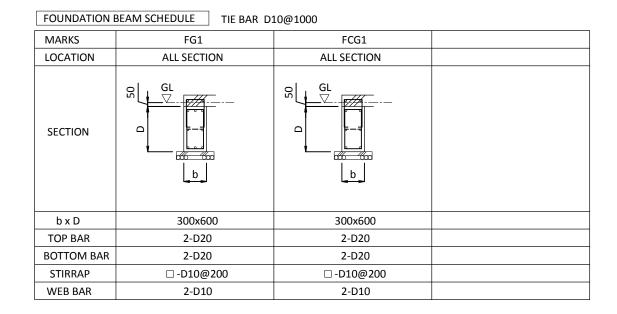


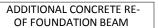


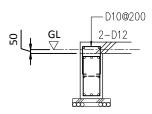
#### LOCATION SCHEDULE

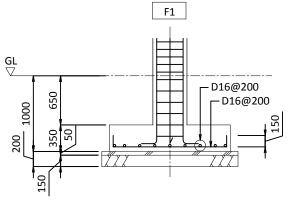
LOCATION NUMBER	LOCATION	REMARK
1	Dhidhdhoo	
2	Kuludhufushi	
3	Funadhoo	
4	Manadhoo	
16	Villingili	
17	Gadhdhoo	
20	Foammulah	
	7 LOCATIONS	

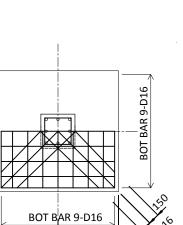
PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG I	No.	
		TRANSMITTER BUILDING  ALLOWABLE SOIL BEARING CAPACITY 100kN/m2 FOUNDATION SCHEDULE							AS-05	5
			S=1/50	уес	YACHIYO ENGINI	EERING CO., LTI	D.	REV.	0	





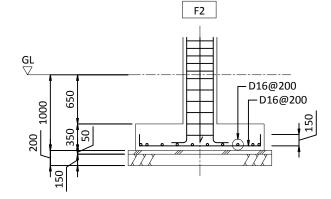


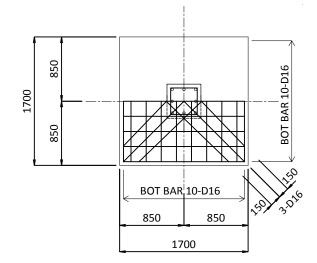




800

1600



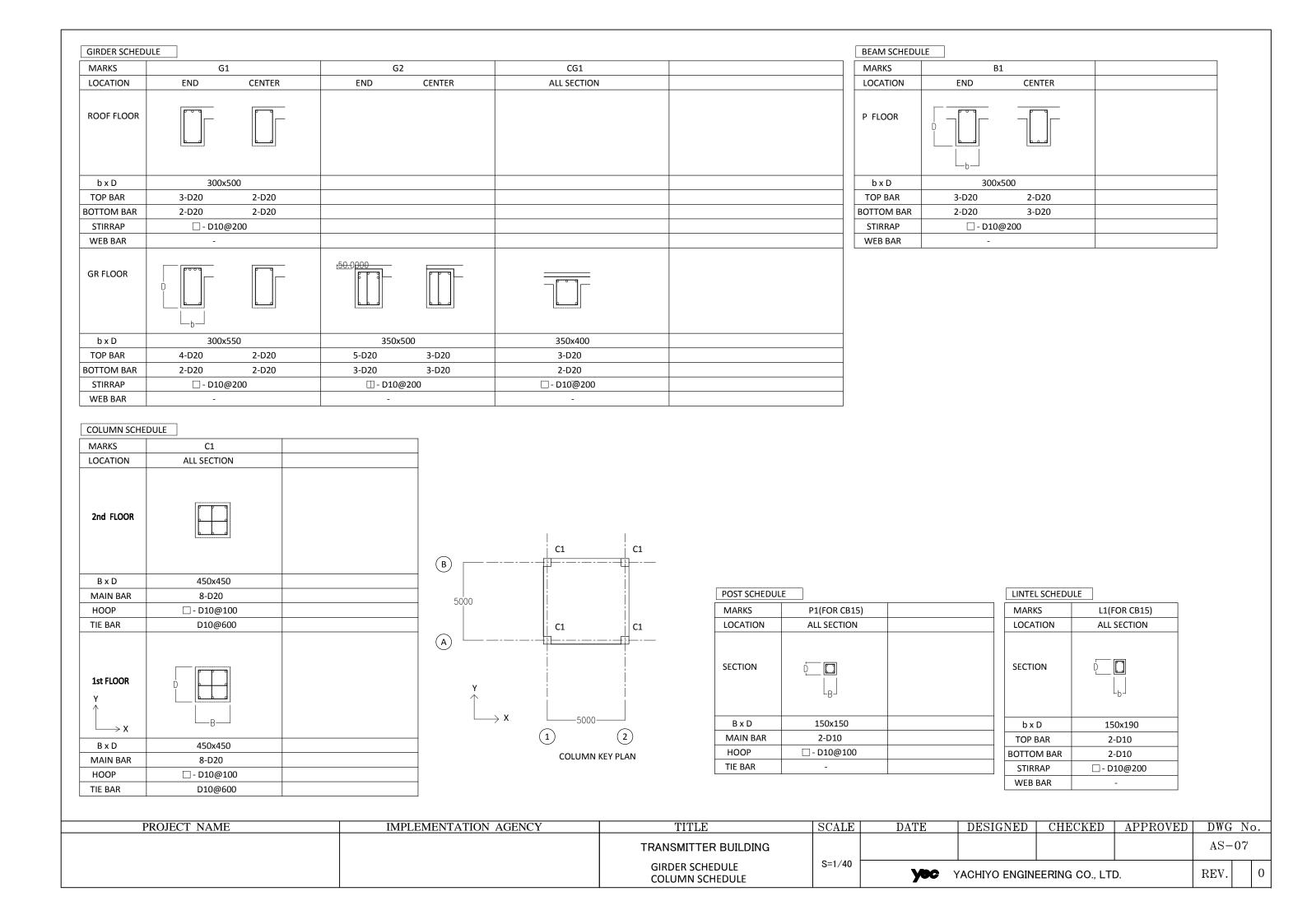


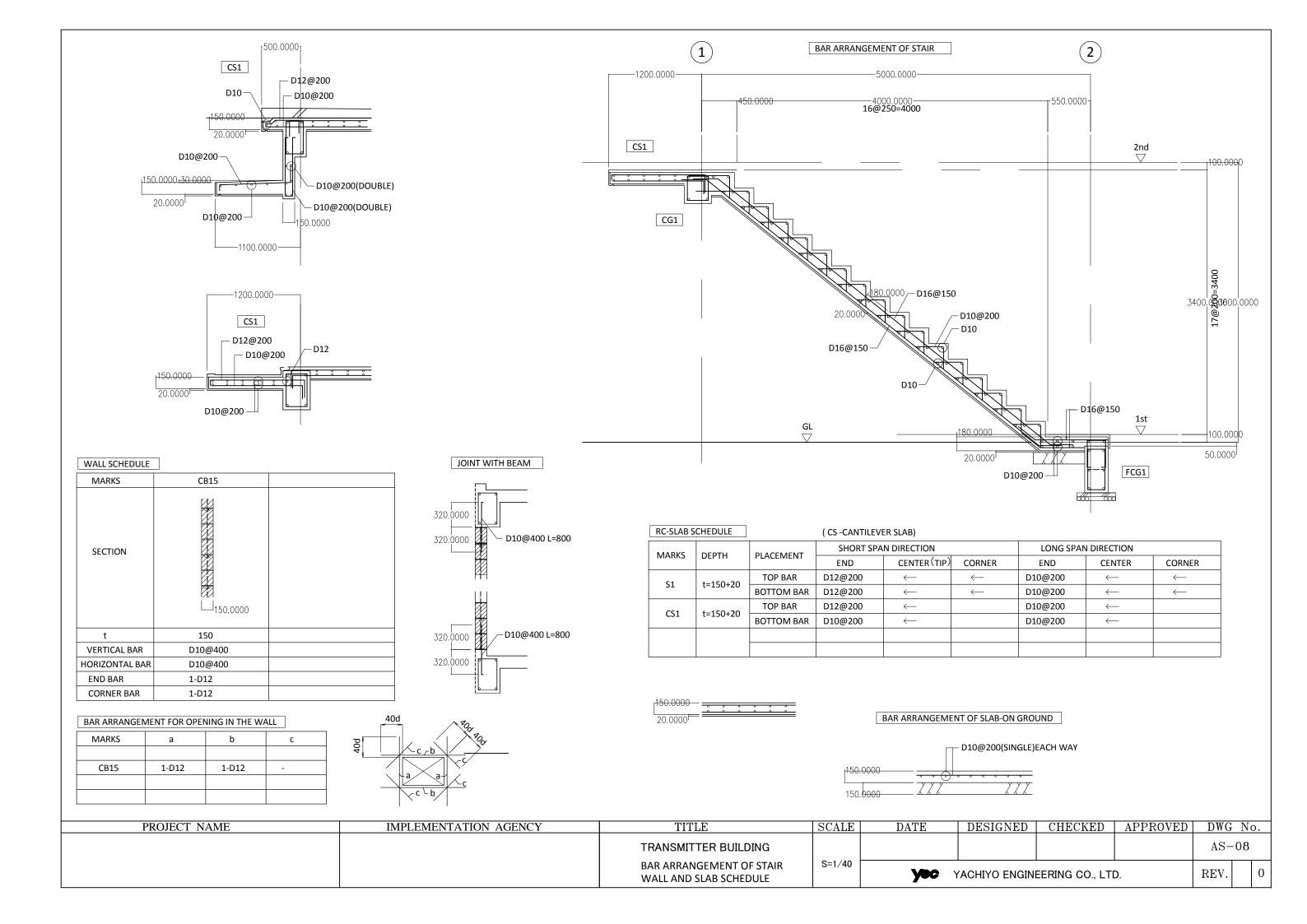
#### LOCATION SCHEDULE

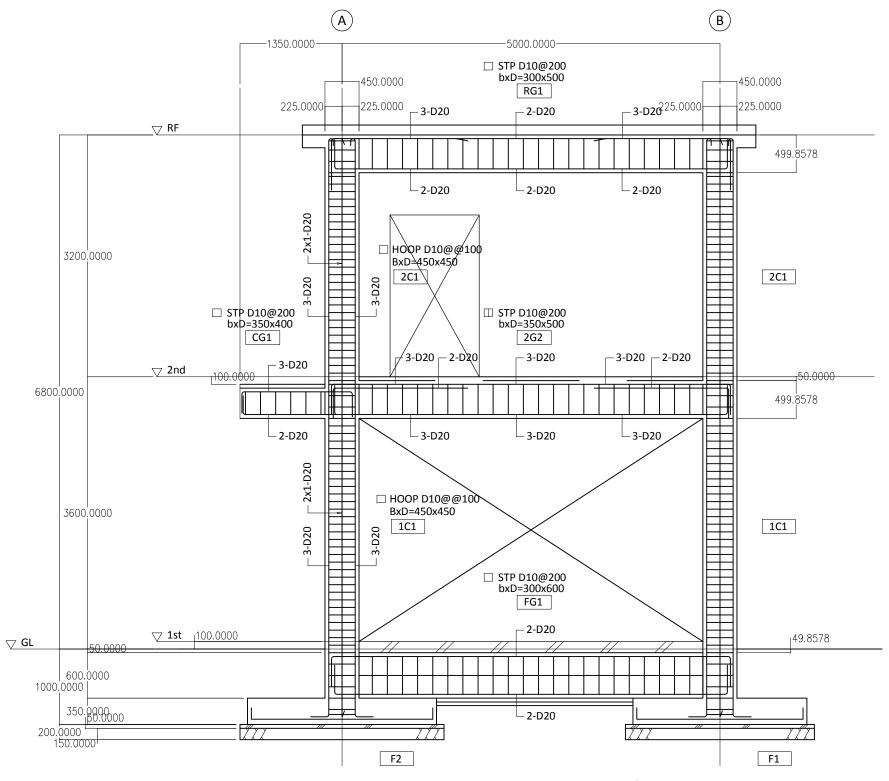
LOCATION NUMBER	LOCATION	REMARK
5	Ungoofaaru	
6	Eydhafushi	
8	Male(Villingili)	
10	Falidhoo	
11	Dhangethi	
12	Feeali	
13	Nilandhoo	
14	Gan	
18	Fiyoari	
19	Thinadhoo	
21	Hithadhoo	
	_	
	11 LOCATIONS	

PROJECT NAME	IMPLEMENTATION AGENCY	TITLE SCA	ALE	DATE	DESIGNED	CHECKED	APPROVED	DWG	No.
		TRANSMITTER BUILDING						AS-0	)6
		ALLOWABLE SOIL BEARING CAPACITY 140kN/m2 S=1,	/50	yec	YACHIYO ENGINE	EERING CO., LTI	Э.	REV.	0

1600



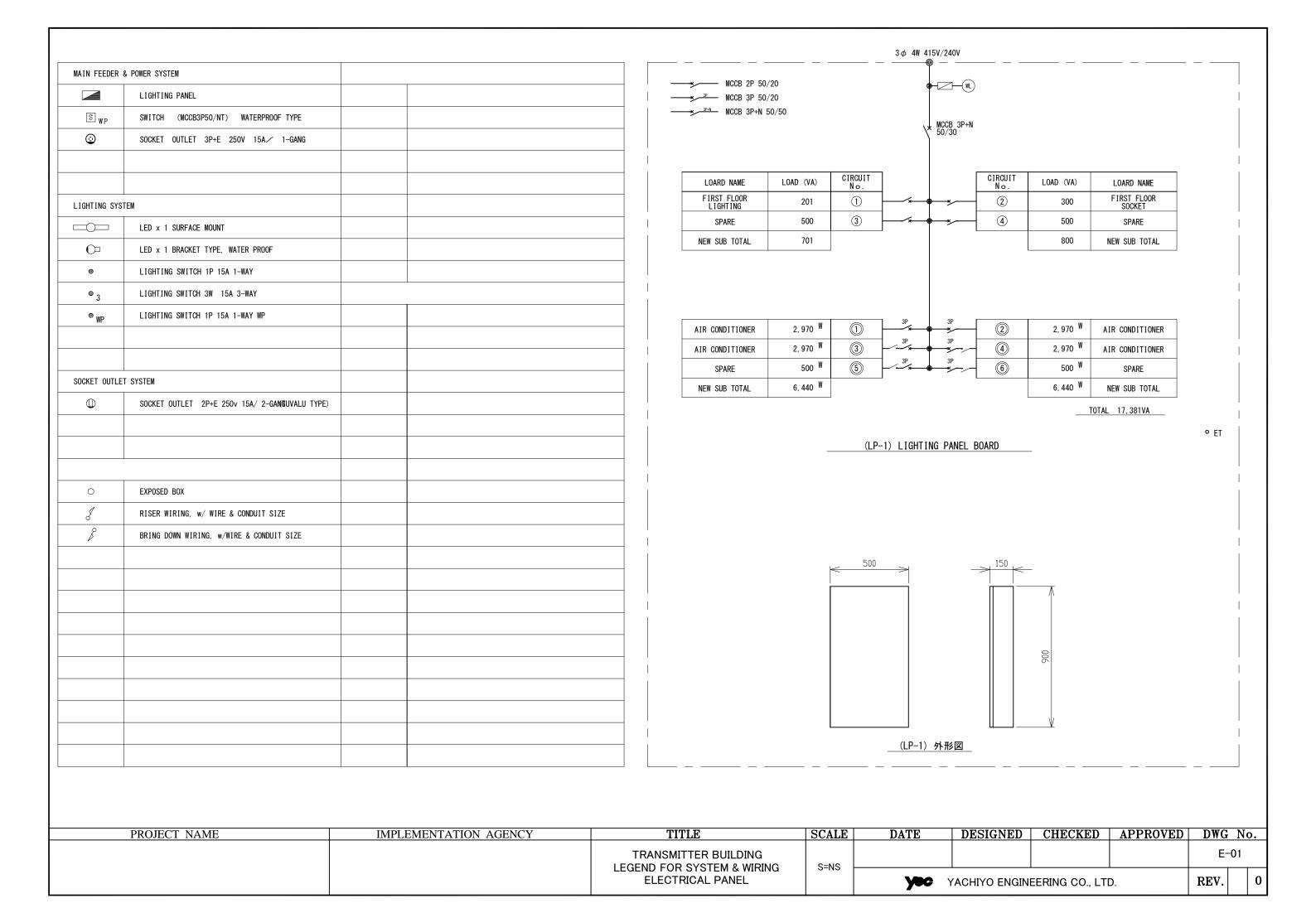




1 LINE FRAMING ELEVATION S=1/50

COLUMN: TIE BAR D10@600 GIRDER: WEB BAR 2-D10 TIE BAR D10@1000

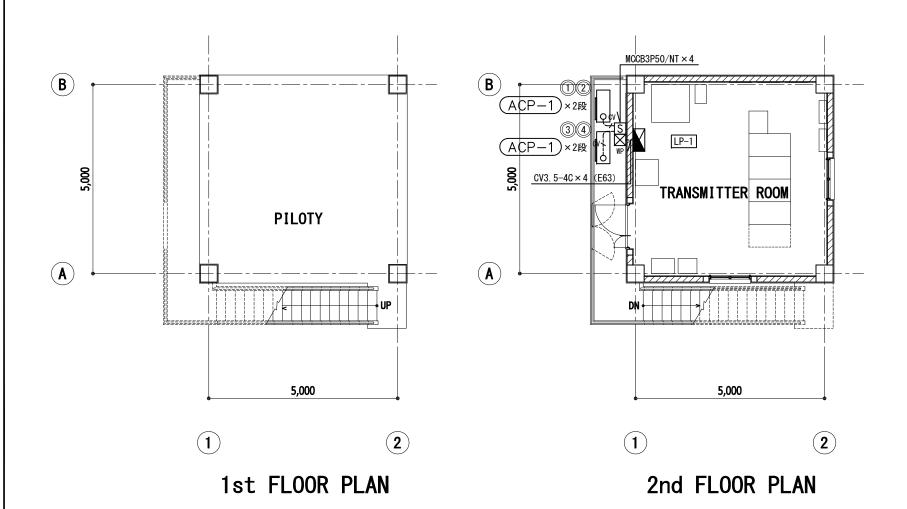
PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG	No.
		TRANSMITTER BUILDING						AS-0	9
		BAR ARRANGEMENT OF FRAMING ELEVATION	S=1/50	YSC YACHIYO ENGINEERING CO., LTD.			D.	REV.	0

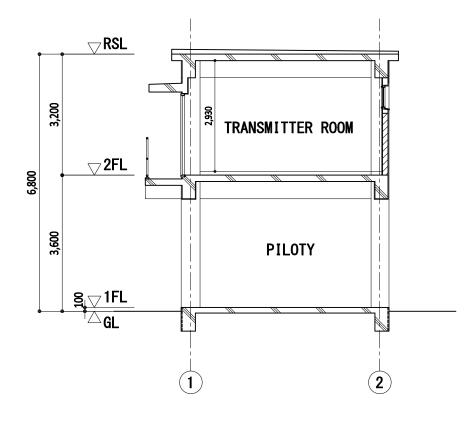




\* REFER TO THE FOLLOWING SIZE OF BOXES

WP: STAINLESS STEEL





A - A SECTION

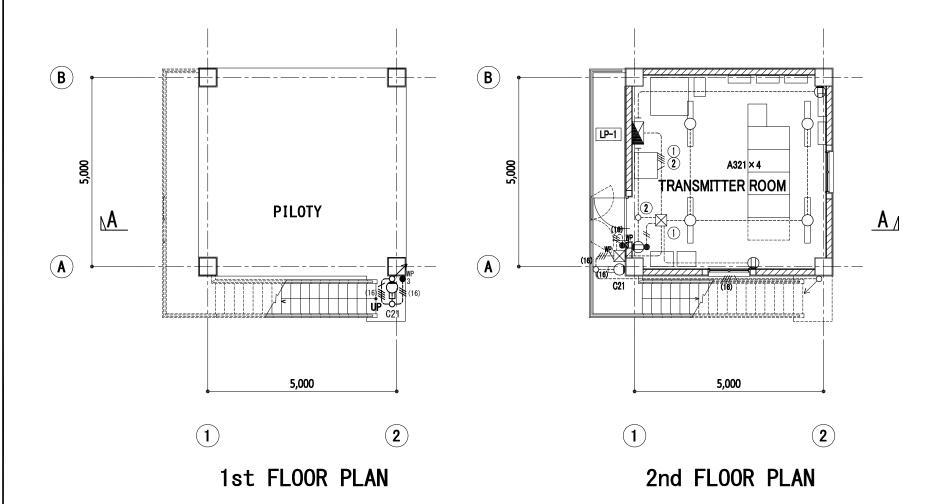
PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG	No.
		TRANSMITTER BUILDING	S=1/100					E-02	
		POWER SUPPLY PLAN	5-1/100	YOC YACHIYO ENGINEERING CO., LTD. RE				REV.	0

## LIGHTING FIXTURE SCHEDULE

A	SURFACE MOUNTED REFLECTOR TYPE	C	Bracket Type, Water Proof	
A321	LED33W	C21	LED12W	
A321W	LED33W (Water Proof)			

## LEGEND

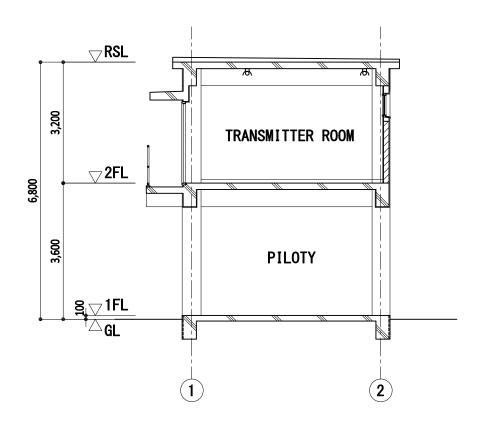
1. RATED VOLTAGE : 1 \( \phi \) 240V-50Hz
2. POWER FACER : HIGH POWER FACTOR



\* REFER TO THE FOLLOWING SIZE OF WIRE AND LAYING PIPES

\* REFER TO THE FOLLOWING SIZE OF BOXES

WP: STAINLESS STEEL



A - A SECTION

PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG N	No.
		TRANSMITTER BUILDING						E-03	3
		LIGHTING FIXTURE & OUTLET SOCKET PLAN	S=1/100	YACHIYO ENGINEERING CO., LTD.			REV.	0	

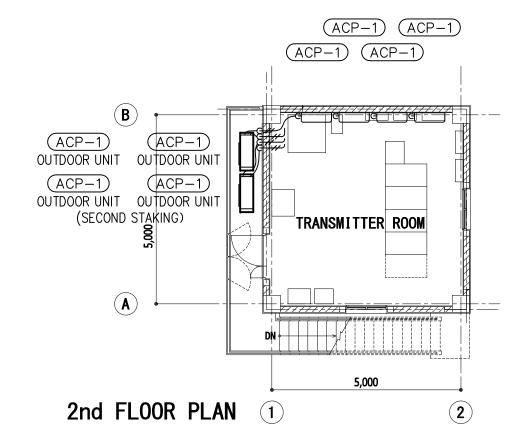
## EQUIPMENT SCHEDULE

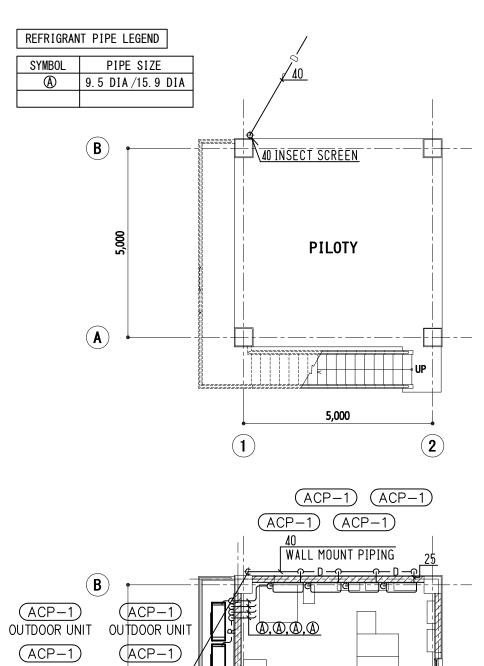
SYMBOL	DESCRIPTION	QTY	SPECIFICATION	LOCATION
ACP-1	WALL MOUNTED TYPE HEAT-PUMP SYSTEM AIR CONDITIONER (CORROSION PROOF TYPE)	4	COOLING CAPACITY: 8.0 kW  CONSUMPTION POWER: 2.97 kW  COMPRESSOR POWER: 1.3 kW  INDOOR FAN POWER: 40 W  OUTDOOR FAN POWER: 50 W  POWER: 3 PHASE - 220 V - 60 Hz	TRANSMITTER ROOM

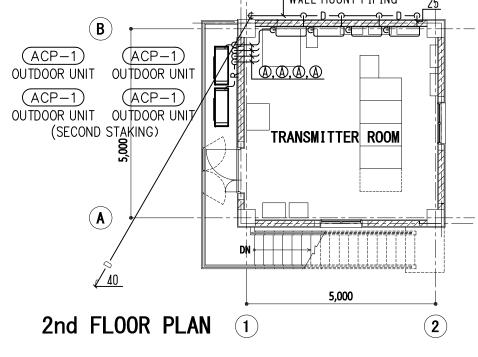
## LEGEND

— D — DRAIN PIPE (UNPLASTICIZED) POLY VINYL CHLORIDE

────── VVF-1. 6 & CVV-2. 0-2C







PROJECT NAME	IMPLEMENTATION AGENCY	TITLE	SCALE	DATE	DESIGNED	CHECKED	APPROVED	DWG N	<u>10.</u>
		TRANSMITTER BUILDING	S=1/100 —					M-01	1
		VENTILATION AND AIR CONDITIONING SYSTEM EQUIPMENT SCHEDULE	3-1/100	YACHIYO ENGINEERING CO., LTD.			D.	REV.	0

