



LIVE&LEARN  
MALDIVES

**FINAL REPORT**

Baseline Socio Economic Survey in  
Thilafushi and Gulhifalhu

TA 9327 - Greater Male' Environmental Improvement and Waste Management Project

**August – September 2019**

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# **1. Introduction**

Asian Development Bank (ADB) requested and received assistance through the Ministry of Environment and Energy (MEE) for the services of Live and Learn Environment Education to carry out the baseline socio-economic survey of the residents of Thilafushi and Gulhifalhu which was a requirement of the Greater Male' Environmental Improvement and Waste Management Project.

The overall objective of this consultancy was to ascertain baseline socio economic profile of the residents in Thilafushi and Gulhifalhu islands. The survey also aimed to determine the current waste disposal practices, the needs and willingness of the companies operating in the islands to pay for waste management services. The results of the survey will be used for evidence-based planning and designing needs based socially inclusive strategies to maximize project benefits.

This document reports a summary of the purpose, methodology, sampling frame and strategy, data collection and analysis process, key findings of the study, limitations of the study and general recommendations.

## **2. Methodology**

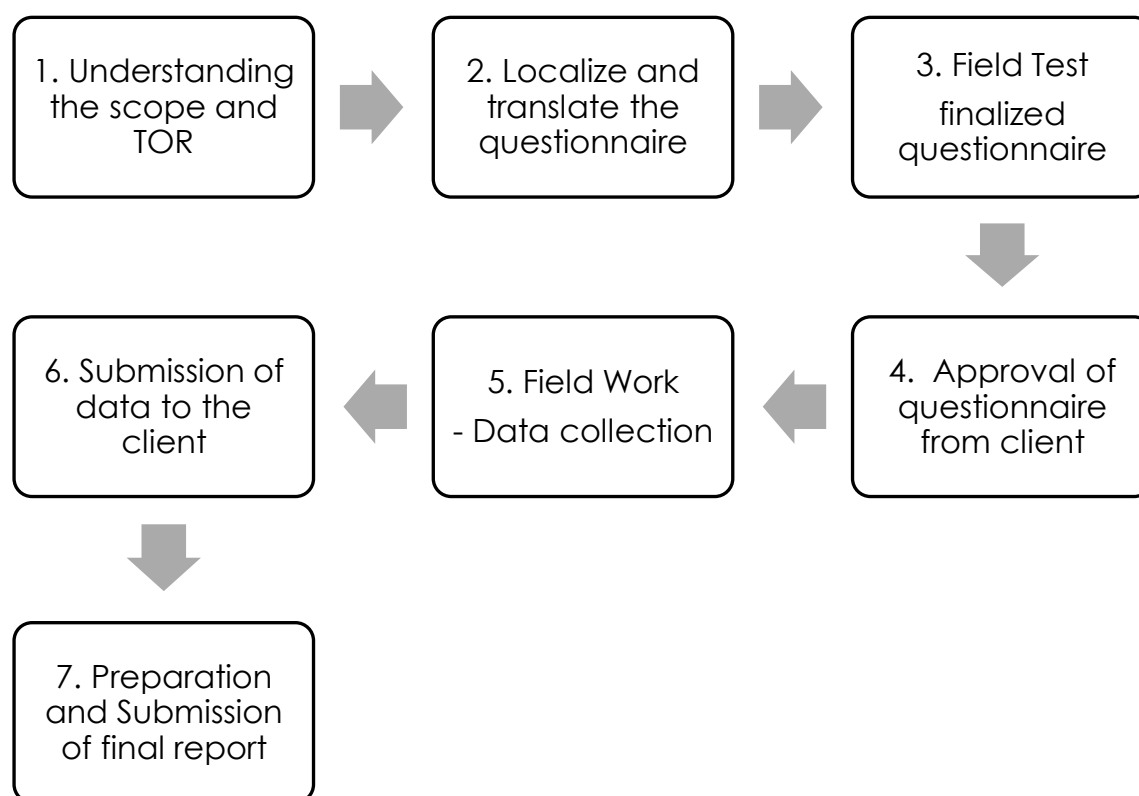
### **2.1 Objectives**

The aim of this study was to ascertain baselines with regards to poverty and development indicators that included a set of socio- economic variables such as, education, occupation, economic status, access to basic services- including access to healthcare, accommodation, clean drinking water and food, and waste management. The survey targeted residents living and/or working in all areas in Thilafushi and Gulhifalhu islands.

### **2.2 Approach**

The following schematic diagram summarizes the key steps of the approach that was followed to carry out the assignment.

**Figure 1: Schematic diagram showing the work methodology**



### **2.3 The Sampling Frame and Sampling Strategy**

The survey was carried out in Thilafushi and Gulhifalhu islands. The survey was based on a core sets of information, an updated list of tenants obtained from Greater Male’ Industrial Zone Limited (GMIZL) and estimated number of workers on site. The survey sample represented a cross-section of the individuals working and/or residing in Thilafushi and Gulhifalhu Islands and the companies based in these two islands.

During the inception phase, Live and Learn identified the survey locations, sampling methodology and sample size. The sample size was based on instructions provided by the client. Specific instructions were provided to survey about 200 individuals living/ and or working in areas or sites that are close in proximity to the waste management site in Thilafushi. Survey locations were finalized with guidance from Thilafushi and Gulhifalhu management office, the Greater Male’ Industrial Zone Limited (GMIZL). According to the information received, not many companies were in areas close to the waste management site in Thilafushi. GMIZL highlighted that there are discrepancies in utility services available in the different zones of the island, that the “old Thilafushi” identified in the map as “silver plots” did not have water and sanitation services available. They also guided the survey team to identify the size and type of tenants in the different zones of the islands. Care was taken to ensure that the sample represented residents living/ and working in sites near all areas/ zones in the islands. To maximize on the quality, a comprehensive list of tenants was obtained from GMIZL. See *Appendix A* for the list of tenants located in Thilafushi, obtained from GMIZL and *Appendix B* for maps of Thilafushi and Gulhifalhu with the surveyed companies located.

## **2.4 Data Collection**

### **2.4.1 Questionnaire**

The survey was carried out using two questionnaires based on socio economic variables - one for individuals working and/ or residing in Thilafushi and Gulhifalhu and the other for companies based in Thilafushi and Gulhifalhu Islands. The sample covered 430 individuals (Thilafushi 374; Gulhifalhu 56) and 35 companies (Thilafushi 32; Gulhifalhu 3).

The questionnaires were developed to elicit the most important quantifiable data for this assessment. The questionnaires included various research questions that intended to get information for the research areas, specifically,

- a. Provision and accessibility to basic services including;
  - Accommodation
  - Food
  - Healthcare
- b. Expenses on basic needs and savings
- c. Waste management
- d. Factors influencing waste management practices
- e. Readiness to use improved waste management services

The questionnaires were modified in line with the societal norms, adapted to the local context and was translated in Dhivehi. The questionnaires were field-tested and refined based on the experience gained by the field test. The modified questionnaires are included in *Appendix C*.

## **2.5 Data Analysis**

### **2.5.1 Data entry, analysis, synthesis and interpretation**

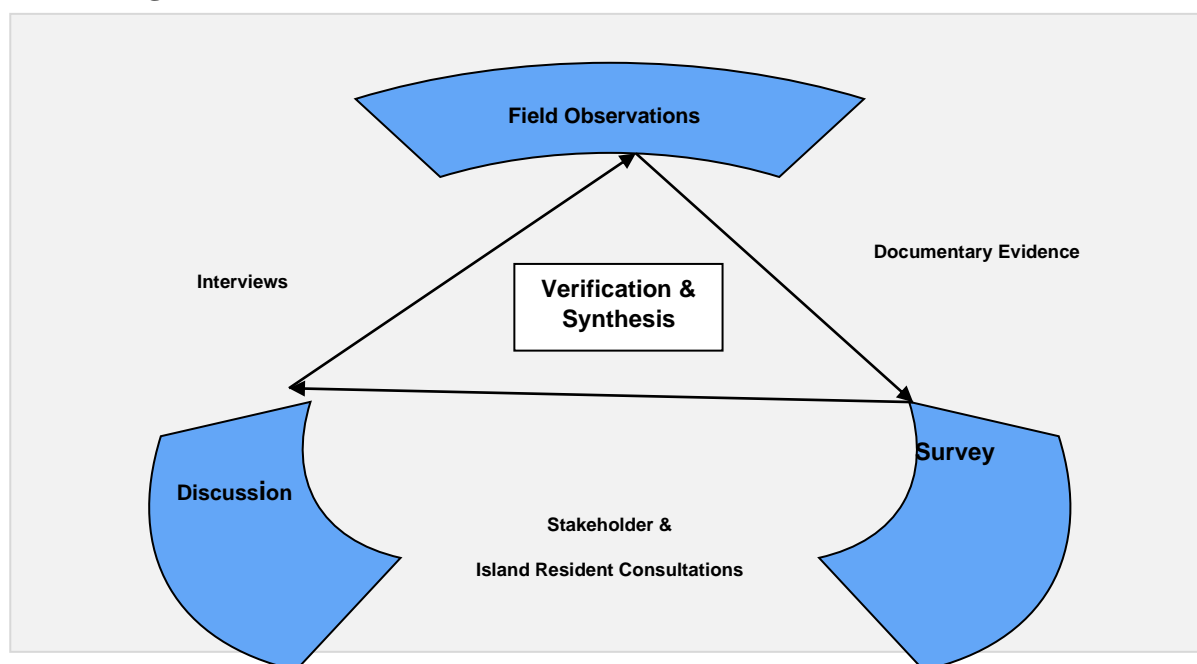
The questionnaires were filled by trained enumerators using tablet computers or smart phones in order to ensure efficiency and accuracy. The data were automatically entered, coded and fed into a central data base.

Data analysis and tabulation were carried out using a set of tables prepared by the Consultant's Team and shared with the client for feedback and comments.

### **2.5.2 Integration of Different Information Gathering Processes**

Findings of field research were triangulated and documented to ensure their credibility and validity. Information gathered from the different sources were checked through comparisons and verification discussions. For example, information from surveys was cross checked with information gathered from discussions with client, project documents and observations. Consultant compared data mainly from these three sources prior to making conclusions and reporting. Evidence from secondary sources including stakeholder consultation and interviews were used as supplementary sources of information to support the findings gathered from the above three key sources. Following figure illustrates the triangulation process of data that was gathered from various methods under this study.

**Figure 2: Triangulation of raw data collected from different methods**



### **3. Key Findings**

#### **3.1 General Information**

The survey respondents comprised of 1 female and 429 males. The respondents' ages ranged from 18 to 67 and are mostly Muslims (81%) and from Bangladesh (66%). The length of stay of the respondents in Maldives ranged from less than one year to more than 35 years. 78 percent of the respondents stated that they had a work visa or permit, 18 percent did not have a work visa or work permit and 3 percent did not want to respond to the question. Note that Maldivians (15%) do not need a permit to work in Thilafushi and Gulhifalhu. Hence, out of the 85 percent of foreign respondents, approximately 66 percent had a work visa or permit.

The education level of the respondents' showed that 9 percent did not have any education, 12 percent had basic literacy skills, 25 percent completed primary and 39 percent completed secondary education (secondary school and O'level), 7 percent have completed A'level and 4 percent have completed degree and above.

The education level was reflected in the job titles that the respondents hold as 54 percent of the respondents were unskilled labourers, 35 percent skilled workers, 7 percent at supervisor level, 1 percent at managerial level and 3 percent of the respondents' held jobs that were not categorized in any of the above mentioned categories.

The key points that emerged from the study are;

#### **3.2 Income, Expenditure and Savings**

- The self-assessed economic status showed that 24 percent respondents perceived themselves to be poor. The proportion of respondent who felt that they were in the lower middle-income level to middle income level constituted approximately 70 percent. Two percent respondents believed that they are rich.

- The highest expenditure for the respondents was estimated to be on communication (phone and internet) and the average monthly spent monthly ranged from MVR 500 to MVR 1500. The monthly expenditure on accommodation and basic needs such as utilities, food and drinks, and health care were borne by the employers and respondents had to spend minimal amount on these (Refer Table 1 below).

**Table 1: Summary of expenditure**

Expenditure (MVR)	Number of people who spent on:						
	B2. Food & Drinks	B3. House Rent	B4. House Maintenance	B5. Healthcare	B6. Electricity	B7. Water	B8. Communication
0-499	253	395	404	396	402	403	149
500-999	40	1	7	14	9	13	205
1000-1499	47	3	3	10	5	2	45
1500-1999	36	3	2	1	3	1	14
2000-2499	15	1	3	4	5	6	11
2500-2999	1	1	2	0	1	0	0
3000-3499	13	2	2	1	0	1	2
3500-3999	2	1	1	0	0	2	0
4000-4499	5	1	1	0	1	1	2
Above 5000	18	22	5	4	4	1	2

- The respondents stated that their average savings would be about 60 to 80 percent of the monthly income and 78 percent of the respondents send their savings to their families in respective countries.

**Table 2: Summary of Income**

No. of respondents' – Summary of Income (MVR)				
Place of Residence	Below poverty line (<2000 MVR)	2001-4000	4001-6000	>6000
Male'	2	7	3	40
Thilafushi	19	46	140	119
Gulhifalhu	5	14	19	14
Boat	0	0	2	1
Other	1	0		2
<b>Total</b>	<b>27</b>	<b>67</b>	<b>164</b>	<b>176</b>

- Note: As indicated in the initial communications with the client, it was anticipated that a lot of people would hesitate to provide accurate data for income and expenditure, since the state is preparing to decree income tax. It appears that the data on expenditure and savings have errors and inconsistencies due to this. The main observation is that the lowest incomes estimated from the data received range from MVR200 to MVR500, some of whom are local and foreign nationals serving as technical/skilled employees. No local would work on a full-time job for a salary that is less than MVR5000, specifically in this job category. Additionally, the lowest income for foreign laborers will not be less than USD200, i.e., approximately 3000 per month.

### **3.3 Housing, Infrastructure and Basic Services**

- Majority of the respondents lived in Thilafushi (74%) and the rest of the respondents lived in Male' (12%), Gulhifalhu (12%) and in a boat or a dhoni (1%).
- 46 percent of the respondents lived in shared rooms, 37 percent in living quarters, 14 percent in single rooms and 3 percent at the project worksite.
- In the majority of the accommodation that respondents lived, the walls are built with concrete blocks plastered with cement (60%) and the rest corrugated iron (25%), wood (12%) and stone (2%); and the roofs are mostly built with corrugated iron (87%).
- 58 percent of the respondents had a separate kitchen in their living premises and out of that 50% use cooking gas for cooking.
- Main sources of drinking water were house/building service connection (34%), public tap water from treated source (30%), bottled water (28%) and rainwater (4%). Similarly the source of water used for washing and bathing include house/building service connection (53%), public tap water from treated source (41%), and rainwater (2%)
- On average it was reported that respondents shared a toilet among 5 to 10 people and 96 percent of the toilets they used were flush latrine connected to piped sewer system. 15 respondents stated that they use alternated toilets and out of which 3 respondents used public toilets.
- For the question on whether respondents were aware of their rights, 39 percent said "Yes" and 61 percent said "No". In terms of respondents perception on what their basic rights were, majority said right to accommodation (33%) and the rest said right to food (30%), salary (29%), healthcare (29%), leave (26%), safe water and sanitation (26%) and number of working hours (23%).

### **3.4 Health Condition and Healthcare Services**

- 68 percent of the respondents surveyed had a health insurance and 46 percent had a health issue past six months. The common issues reported were fever (65%) and cold (9%). Other issues reported include asthma, breathing problems, throat pain and other body aches and pains.
- 94 percent of those who reported sick saw a doctor and 96 percent went to a health facility in Male'. This could be because a health facility was opened in Thilafushi only recently (July 2019) and with limited facilities and services.

**Table 3: Disease Incidence Summary**

Place of Residence	No. of respondents'			
	Asthma/Lung related/Allergies/Cold, cough, fever	Water-borne diseases	Vector-borne diseases	Skin diseases
Male'	16	0	2	0
Thilafushi	125	0	6	5
Gulhifalhu	5	0	0	0
Boat	0	0	0	0
Other (Villimale and Hulhumale)	0	0	0	0
<b>Total</b>	<b>146</b>	<b>0</b>	<b>8</b>	<b>5</b>

Note: Records of water and air borne diseases are not available.

### 3.5 Solid Waste Management

- Majority of the respondents (66%) and companies (76%) highlighted that they are aware of the health issues related to garbage while 32 percent of the respondents' 24 percent of the companies said that they are not aware of such issues.
- 46 percent of the respondents believed that garbage is a huge problem in their locality, 19 percent of the respondents believed that it is a problem while 8 percent of the respondents reported that they rarely have issues and 25 percent respondents said not an issue at all. Similarly, 46 percent of the companies believed that garbage is a huge problem in their locality, 43 percent believed that it is a problem while 3 percent reported that they rarely have issues and 6 percent said not an issue at all.
- 67 of the respondents and 83 percent of the companies reported that the present practice of waste disposal in Thilafushi, including burning caused health issues and majority of the respondents said main problem was health problems due to air pollution and smoke (59%). Other problems stated include problems due to flies (4%) and problems due to contamination of lagoon (1%).

Solid waste management survey was mostly focused on to the companies based in Thilafushi and Gulheefalhu Islands and hence the key findings stated below in this section are based on the company responses.

- 69 percent reported that they segregate waste while 29 percent said that they do not. The companies who segregate waste reported that they segregate waste into plastics (31%), organics (32%), paper (14%) and metal (51%).
- 6 percent of the companies have received training on waste management while the majority 94 percent reported that they have not received any training in this area.

However, 71 percent companies stated that training on solid waste management will be beneficial.

- 37 percent companies said that they sell recyclable materials, while the majority 63 percent said that they do not sell recyclable waste materials.
- 29 percent of companies had door to door waste collection service and 71 percent opted for private arrangement. The frequency of waste collection or disposal services include: daily (9%), weekly (12%), monthly (3%) and irregular (6%).
- 9 percent of the companies reported that they use WAMCO's services for waste disposal. 91 percent said that they made private arrangements. This was evident from the responses as 71 percent of the companies stated that they were poorly satisfied with the present waste collection mechanism.
- 62 percent of the companies said they pay for waste collection and 38 percent said that they did not pay. The amount, companies who were paying for waste disposal, range from MVR 500 – MVR 40,000.
- From the companies currently not using the services of WAMCO for waste disposal, 85 percent stated that they will shift to WAMCO if services were improved and 9 percent said they did not want. In addition, 91 percent companies are willing to pay a reasonable amount to WAMCO if waste disposal practices were improved.
- Most companies (65%) were not aware about Government's program on Solid Waste Management (SWM) improvement through Ministry of environment and WAMCO.

### **3.6 Other Issues**

Other socioeconomic issues, problems and concerns raised by the individual respondents and companies during the survey included:

- No electricity and water services available in some parts of Thilafushi
- No regulations on road safety and parking.
- No regular ferry services were available, hence, the residents had to hire speedboats if there was an emergency medical issue.
- Smoke inhalation is the main problem. Some days smoke becomes so thick that you will not be able to see the person standing next to you.
- No banks and other facilities available on the Islands and therefore, have to go to Male' to send money home.
- Currently, government charging a very high amount for waste disposal.
- Waste management is a hazard. Hope the government solves this problem soon

See *Appendix D* and *Appendix E* for graphical representation of data obtained from individual survey and company survey respectively.

## **4. Limitations**

- Time constraints – Since the timeframe for data collection was about 4 days, data collection process was rushed and enumerators may have missed some information given by the respondents. In addition, had to seek permission from the companies to conduct the survey and since most of the companies' heads were based in Male, it was difficult to contact them within the time frame and hence, was not able to get some data such as number of employees from all the companies surveyed.
- Communication – The translators were briefed about the survey. However, even translators were not able to comprehend some questions such as “Are you aware of your rights?” and explain to respondents. One reason for this could be that translators competency in formal Dhivehi language may be limited.
- Reluctant or refused to give information on certain questions such as salary and company assets.

## **5. Recommendations**

- Conduct regular assessments of the risk factors involved for residents of Thilafushi and Gulheefalhu and establish mechanisms to reduce risk factors including health hazards.
- Enhance health facility at Thilafushi with improved services to deal with emergency at all times.
- Have schedule ferries at night.
- Develop and improve the current waste management system used
  - Regular collection of waste
  - Create awareness and provide training on proper waste management and individual responsibility
  - Establish a system to collect payment based on the amount of garbage
  - Enact laws and regulations. Penalize those do not abide by the regulations
  - Train WAMCO staff on customer care and establish a grievance procedure and an efficient complaints system
  - Manage waste and abolish burning of waste to minimize health hazards.

## APPENDICES

### APPENDIX A: List of Tenants Located in Thilafushi

TENANT REGISTRY SHEET  GREATER MALE' INDUSTRIAL ZONE LIMITED				
#	TENANT NAME	ZONE	LOCATION	TYPE OF WORK
1	Aasandha Company Limited	Silver	Thilafushi 01	File Storage
2	Waste Management Corporation Limited	-	-	Waste management
3	Villa Hakatha Pvt Ltd	Platinum Plot	Thilafushi 02	LPG storage and refilling plant, bulk cement station, cement packing plant, cement storage, diesel petrol kerosene storage tank, LPG and oxygen, sale of cement and oil, warehousing and All works allowed in Thilafushi
4	Heavy Load Maldives Pvt Ltd			Loading and unloading harbor, warehousing and labor accomodation
5	MTCC	Platinum Plot	Thilafushi 02	Warehousing and slipway
6	MTCC	Gold Plot	Thilafushi 02	Boat building and boat repair
7	Silver Sands Pvt Ltd	Gold Plot	Thilafushi 01	Boat repair and slipway
8	Yacht Tours Maldives	-	-	Slipway work
9	Nalahiya Tradings Pvt Ltd	Platinum Plot	Thilafushi 02	Warehouse of construction materials Shop (by letter no: TCL-PRJ/PRIV/2018/005)
10	State Trading Organization Plc Ltd	Gold Plot	Thilafushi 02	Warehousing
11	Fuel Express Maldves Pvt Ltd	Platinum Plot	Thilafushi 01	Vessel building and servicing fiber glass work
12	Fuel Express Maldves Pvt Ltd	Platinum Plot	Thilafushi 01	Vessel building and servicing fiber glass work
13	Maldives Ports Limited	Platinum Plot	Thilafushi 01	Boat building and boat repair
14	Maldiv Gas Pvt Ltd	Platinum Plot	Thilafushi 01	LPG refilling
15	Villa Shipping & Trading Co. Pvt Ltd	Gold Plot	Thilafushi 02	Cooking gas, cement, oxygen tank, diesel, petrol, kerosene storage and sale ,warehousing , boat building and repair ,slipway, engine repair and maintenance workshop for land and sea vessel and labor accommodation
16	Apollo Holdings Pvt Ltd	Platinum Plot	Thilafushi 02	All Works allowed in Thilafushi
17	Sun Transport Pvt Ltd	TIZ	TIZ	Boat Yard
18	Maldiv Gas Pvt Ltd	Platinum Plot	Thilafushi 01	LPG
19	Gulf Craft Service Centre Maldives Pvt Ltd	Gold Plot	Thilafushi 02	Speed boat building and repair

20	Gulf Craft Service Centre Maldives Pvt Ltd	Gold Plot	Thilafushi 02	Vessel work
21	Nalahiya Tradings Pvt Ltd	Gold Plot	Thilafushi 02	Warehouse of construction materials
22	Universal Enterprises Pvt Ltd	Platinum Plot	Thilafushi 01	Boat repair
23	Ahmed Luthfee	Platinum Plot	Thilafushi 01	Fiber glass speed boat & fishing boat building and boat repair
24	R.K.L Group Pvt Ltd	Platinum Plot	Thilafushi 01	Warehousing and related works, Cement brick and related works, heavy vehicle parking and repairing related works, land and sea vessel building and repairing and related works
25	Coastline Investments Pvt Ltd	Platinum Plot	Thilafushi 01	Warehousing
26	Al Shaali Marine Maldives Pvt Ltd	Platinum Plot	Thilafushi 01	Vessel repair
27	Coastline Investments Pvt Ltd	Platinum Plot	Thilafushi 01	Vessel repair, all works allowed in Thilafushi, diesel storage tank and warehousing
28	VA Pvt Ltd	Platinum Plot	Thilafushi 02	Warehousing
29	Nalahiya Construction Material	platinum Plot	Thilafushi 02	Warehousing
30	Agas Maldives Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing & land and sea vessel building
31	Uniforce Investment Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing and land and sea vessel building
32	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Vessel repair
33	Fuel Supplies Maldives Pvt Ltd	Platinum Plot	Thilafushi 01	Vessel building and repair, workshop, labor accommodation and warehousing
34	State Trading Organization Plc Ltd	-	-	N/A
35	Maldives Structural Products Pvt Ltd	Gold Plot	Thilafushi 02	Production of metal sheet
36	Static Company Pvt Ltd	Gold Plot	Thilafushi 01	RO plant workshop (desalination plant manufacturing), workshop (welding, lathing, engineering and repair works, panel making), fiber works, warehousing and labor accommodation
37	Villa Hakatha Pvt Ltd	Gold Plot	Thilafushi 02	All works allowed in Thilafushi
38	Waste Management Corporation Limited	-	-	warehousing, accommodation block, parking, garage, recycle facility and office building
39	Tommy Engineering Pvt Ltd			Boat Yard
40	Ministry of Defence and National Security	-	-	MNDF works

41	State Electric Company Ltd	Silver Plot	Thilafushi 02	Electricity services to Thilafushi
42	Apollo Holdings Pvt Ltd	Gold Plot	Thilafushi 02	All Works allowed in Thilafushi
43	Apollo Holdings Pvt Ltd	Gold Plot	Thilafushi 02	All Works allowed in Thilafushi
44	Timber House Pvt Ltd	Silver Plot	TIZ	Wood storage and other works
45	The Hawks Pvt Ltd	Platinum Plot	Thilafushi 01	Retail shop, oil supply, brick work, café and boat building
46	Secure Bag (Maldives) Pvt Ltd	Gold Plot	Thilafushi 01	-
47	Muni Enterprises Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
48	A.H. Brothers Pvt Ltd	Silver	Thilafushi 01	Warehousing
49	Alia Investments Pvt Ltd	TIZ	TIZ	Auto Mobile/ Motor Vehicle
50	Amin Construction Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and Carpentry work
51	Apollo Holdings Pvt Ltd	Gold Plot	Thilafushi 02	All Works allowed in Thilafushi
52	Ego Maldives Pvt Ltd	TIZ	TIZ	Warehousing and Carpentry work
53	Marine Export & Trading Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and vehicle repair
54	Rainbow Aluminum Pvt Ltd	Gold Plot	Thilafushi 02	Construction work and aluminum works
55	Rainbow Enterprises	Gold Plot	Thilafushi 02	Warehousing, Furniture production and related works
56	Vimla Construction and Trade Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing, carpentry and labor accommodation
57	Alia Investments Pvt Ltd	TIZ	TIZ	Industrial Equipments/ Marine Power Generation
58	Moosa Kaleem	Silver Plot	-	Warehousing of construction materials, hardware materials GI pipe and structural beam
59	Heavy Dockyard Maldives Pvt Ltd	Platinum Plot	Thilafushi 01	All Works allowed in Thilafushi
60	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
61	Universal Enterprises Pvt Ltd	Platinum Plot	Thilafushi 01	Warehousing
62	Mild Steel Maldives Pvt Ltd	Gold Plot	Thilafushi 01	Boat yard
63	Sonee Hardware Pvt Ltd	TIZ	TIZ	General hardware and Warehousing
64	Sonee Hardware Pvt Ltd	TIZ	TIZ	General hardware and Warehousing
65	Sonee Hardware Pvt Ltd	TIZ	TIZ	General hardware and Warehousing
66	Mafhaa Private Limited	Gold Plot	Thilafushi 01	Boat building and boat repair
67	Coastline Investments Pvt Ltd	Platinum Plot	Thilafushi 01	Warehousing
68	Heavy Dockyard Maldives Pvt Ltd	Platinum Plot	Thilafushi 01	All Works allowed in Thilafushi
69	Aima Construction Pvt Ltd	TIZ	TIZ	brick works

70	Umet Construction Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and construction work
71	Mohamed Manik	Gold Plot	Thilafushi 01	Warehousing
72	Sunfront Pvt Ltd	-	-	Warehousing
73	MWSC	TIZ	TIZ	Water production and distribution system
74	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
75	Apollo Holdings Pvt Ltd	Platinum Plot	Thilafushi 02	All Works allowed in Thilafushi
76	Maldiv Gas Pvt Ltd	Platinum Plot	Thilafushi 01	Buffer zone
77	Sunfront Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing
78	Far Horizon Pvt Ltd	Silver Plot	Thilafushi 01	Fish processing plant, ice plant, aquaponics, fiber tub construction, boat construction and boat repair
79	Maziya Service Pvt Ltd	TIZ	TIZ	fabrication and wood work
80	Maldives Ports Limited	-	-	Vehicle storage
81	Sun Transport Pvt Ltd	TIZ	TIZ	Godown ,carpentary , fiber glass works and workshop
82	Abdul Latheef	TIZ	TIZ	Alluminium Workshop
83	Maldives Petroleum Link Pvt Ltd	Platinum Plot	Thilafushi 01	Warehousing and oil works
84	Vermillion International Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing, boat building, machanicale engineering and brick production
85	Simdi Company Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing
86	Nazaki Aluminium Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and aluminum workshop
87	Heavy Load Maldives Pvt Ltd	Silver Plot	Thilafushi 01	All works allowed in Thilafushi
88	Marine Export & Trading Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
89	Leo Trading Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing, parking , vehicle repair and temporary labor accommodation
90	Beach Marine Pvt ltd	TIZ	TIZ	Workshop
91	Aaru Pvt Ltd	Silver	Thilafushi 01	Warehousing
92	Abbas Abdulla	Gold	Thilafushi 02	Warehousing of Construction Materials
93	Agas Maldives Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing
94	Ahmed Mujah	Silver Plot	Thilafushi 01	Warehousing, Work shop and live fish
95	Aima Construction Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing & Carpentry
96	Ali Abdulla	Gold Plot	Thilafuhsi 2	Warehousing/Construction Materials
97	Ali Muththalib	TIZ	TIZ	Warehousing, fiber works & workshop
98	Al Shaali Marine Maldives Pvt Ltd	Platinum Plot	Thilafushi 01	Vessel repair
99	Apollo Holdings Pvt Ltd	Platinum Plot	Thilafushi 02	All Works allowed in Thilafushi
100	Aries Enterprises Pvt Ltd	TIZ	TIZ	Warehousing

101	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
102	FW Construction Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and workshop
103	Fuel Supplies Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Oil works
104	Maldives Petroleum Link Pvt Ltd	Platinum Plot	Thilafushi 01	Workshop and oil works
105	Heavy Force Pvt Ltd	Gold Plot	Thilafushi 01	Vehicle repair
106	Ibrahim Abdul Latheef	-	-	Workshop
107	Ismail Shafeeu	Silver Plot	Thilafushi 01	Warehousing
108	M.T Hojgaard Pvt Ltd	TIZ	TIZ	Concrete work, carpentry, welding and boat repair
109	Nakachafushi Island Resort	Silver Plot	Thilafushi 01	Warehousing
110	Nalahiya Tradings Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
111	Olhahali Investment Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing
112	Reollo Enterprise Pvt Ltd	TIZ	TIZ	Warehousing and workshop
113	Sunfront Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing
114	Sunfront Pvt Ltd	Gold Plot	Thilafushi 01	Warehousing
115	Sunland Trading Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
116	Tep Construction Pvt Ltd	TIZ	TIZ	Warehousing of Construction Materials
117	Vista Investments Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and construction work
118	Amin Construction Pvt Ltd	TIZ	TIZ	Warehousing
119	Ahmed Luthfee	Silver Plot	Thilafushi 01	Fiber glass speed boat & fishing boat building and boat repair
120	Moosa Kaleem	Silver Plot	Thilafushi 01	Warehousing
121	Adam Ibrahim	Silver	Thilafushi 01	Warehousing
122	Alia Construction Pvt Ltd	TIZ	TIZ	Warehousing, workshop, carpentry, labor quarter, vessel building, garage and parking zone
123	Umar Zahir	Silver Plot	Thilafushi 01	Warehousing
124	Sandcays Pvt Ltd	TIZ	TIZ	Warehousing and labor accommodation
125	Mohamed Ahmed Abdulla	Silver Plot	Thilafushi 01	Warehousing
126	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Vessel repair and vessel building
127	Hussain Mohamed Fulhu	Silver Plot	Thilafushi 01	All works allowed in Thilafushi
128	Marine Coral Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
129	Mohamed Moosa	Silver Plot	Thilafushi 01	Warehousing
130	Ibrahim Rasheed Ali	Silver Plot	Thilafushi 01	Wood warehousing and wood works
131	Waste Management Corporation Limited	-	-	warehousing, accommodation block, parking, garage, recycle facility and office building

132	Mass Enterprises Pvt Ltd	Silver Plot	Thilafushi 01	Wood warehousing and wood works
133	Aima Construction Pvt Ltd	TIZ	TIZ	Vehicle and Barge repair
134	Ali Naashid	Silver Plot	Thilafushi 01	Wood warehousing & wood works
135	Alia Investments Pvt Ltd	Silver Plot	Thilafushi 01	Wood warehousing and wood works
136	FW Construction Company Pvt Ltd	Silver Plot	Thilafushi 01	Wood warehousing and wood works
137	Far Horizon Pvt Ltd	Silver Plot	Thilafushi 01	Wood warehousing and wood works
138	Ibrahim Hassan	Silver Plot	Thilafushi 01	Wood warehousing and wood works
139	Onus Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
140	Sunfront Pvt Ltd	-	-	Warehousing and Carpentry work
141	Timber House Pvt Ltd	Silver Plot	Thilafushi 01	Wood storage and other works
142	Timber Trade Pvt Ltd	Silver Plot	Thilafushi 01	Wood storage and other works
143	Ali Shareef	Silver Plot	Thilafushi 01	Warehousing
144	Ahmed Sinah	Platinum Plot	Thilafushi 01	Dockyard
145	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	All works allowed in Thilafushi
146	Maldives Petroleum Link Pvt Ltd	Platinum Plot	Thilafushi 01	Warehousing
147	Heavy Load Maldives Pvt Ltd	Silver Plot	Thilafushi 01	All works allowed in Thilafushi, except works stated in clause 12 of the agreement.
148	Aaru Pvt Ltd	Silver	Thilafushi 01	Warehousing
149	Hello Maldives Pvt Ltd	Gold Plot	Thilafushi 01	Fish processing plant, ice plant, aquaponics, fiber tub construction, boat construction and boat repair
150	Silver Sands Pvt Ltd	Gold Plot	Thilafushi 01	All works allowed in Thilafushi
151	Bio Diversity Education and Awareness Maldives (BEAM)	-	-	Collecting, segregating and bailing ocean plastic
152	Marine Coral Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and brick works
153	Damas Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and workshop
154	Leo Trading Pvt Ltd	Gold Plot	-	Warehousing and workshop (Heavy vehicle maintenance and services)
155	Mild Steel Maldives Pvt Ltd	-	-	Warehousing
156	Maldives Structural Products Pvt Ltd	Gold Plot	Thilafushi 02	Warehousing
157	Island Engineering Services and Supplies Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
158	Static Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
159	Damas Company Pvt Ltd	Silver Plot	Thilafushi 01	Vehicle repair and vehicle storage

160	The Hawks Pvt Ltd	Silver Plot	Thilafushi 01	Bric work, fiber work and carpentry
161	Hussain Khalid	Silver Plot	Thilafushi 01	Warehousing, hotel, shop and labor accommodation
162	Ismail Adil	Silver Plot	Thilafushi 01	Warehousing
163	Hassan Haleem	Silver Plot	Thilafushi 01	Brick work
164	Mohamed Sameer	Silver Plot	Thilafushi 01	Brick work
165	Tep Construction Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing of Construction Materials
166	Monaza Contracting Company Pvt Ltd	Silver Plot	Thilafushi 01	Carpentry, staff accommodation, café, workshop and saloon
167	Mohamed Majid	Silver Plot	Thilafushi 01	Warehousing and Tailor work
168	Saroof Naazim	TIZ	TIZ	Non Flammable works
169	Aaru Pvt Ltd	Silver	Thilafushi 01	Labor Accommodation
170	Agas Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
171	Ahmed Sameeru	Silver Plot	Thilafushi 01	Warehousing
172	Ahmed Sinah	TIZ	TIZ	Warehousing
173	Ahmed Zareer	TIZ	TIZ	Warehousing
174	Aima Construction Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
175	Aima Construction Pvt Ltd	Silver Plot	Thilafushi 01	All works allowed in Thilafushi
176	Ali Ibrahim Rashid	TIZ	TIZ	Warehousing
177	Apollo Holdings Pvt Ltd	Platinum Plot	Thilafushi 02	All Works allowed in Thilafushi
178	Asian Power Investment Pvt Ltd	TIZ	TIZ	Warehousing and workshop
179	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and vehicle repair
180	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
181	Dhivehi Meysthiri Pvt Ltd	Silver Plot	Thilafushi 01	All Works allowed in Thilafushi
182	Dhivehi Meysthiri Pvt Ltd	Silver Plot	Thilafushi 01	Carpentry
183	Dynamic Construction and Trading Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and brick works
184	Farifeyran Pvt Ltd	Silver Plot	Thilafushi 01	Brick work, warehousing, cement works, carpentry, workshop, metal works, fiber works, sale of wood and hardware construction work
185	Faunu Enterprises Pvt Ltd	Gold Plot	Thilafushi 01	Vessel repair Shop (by letter no: TCL-LEGAL/PRIV/2018/025)
186	Haajaraa Workshop	Silver Plot	Thilafushi 01	Warehousing and machinery repair
187	Maldives Petroleum Link Pvt Ltd	TIZ	TIZ	Warehousing, labor accommodation and maintenances work
188	Maldives Petroleum Link Pvt Ltd	TIZ	TIZ	Warehousing, labor accommodation and maintenances work

189	Ibrahim Majid	TIZ	TIZ	Warehousing and Compact works of steel and plastic
190	Ilyas	Silver Plot	Thilafushi 01	Workshop
191	Ismail Hilmy	Silver Plot	Thilafushi 01	Warehousing
192	Ismail Zahir	TIZ	TIZ	Vessel repair
193	Ives Pvt Ltd	TIZ	TIZ	Warehousing and workshop
194	Jausa Holdings Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
195	LuckyHiya Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and Carpentry work
196	Maldives Road Development Corporation Limited	Silver Plot	Thilafushi 01	Brick works site office
197	Mohamed Moosa	Silver Plot	Thilafushi 01	Brick work, warehousing, cement works, carpentry, workshop, metal works, fiber works, sale of wood and hardware construction work
198	Mohamed Naasih	Silver Plot	Thilafushi 01	Vehicle repair
199	Mohamed Shareef	TIZ	TIZ	Warehousing and services
200	Muaz Mohamed	TIZ	TIZ	Warehousing
201	Muni Enterprises Pvt Ltd	TIZ	TIZ	Carpentry
202	MWSC	Platinum Plot	Thilafushi 01	Water plant and other water related works
203	MWSC	Platinum Plot	Thilafushi 01	Water supply for Thilafushi
204	Ocean Brilliant Sea Food International Pvt Ltd	TIZ	TIZ	Fish processing
205	Prop Pvt Ltd	-	-	N/A
206	Rasheed Carpentry & Construction Pvt Ltd	Silver Plot	Thilafushi 01	Carpentry
207	Rasheed Carpentry & Construction Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and Carpentry work
208	The Hawks Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing, vehicle repair, brick work, oil storage, retail business, boat building and café
209	Universal Enterprises Pvt Ltd	Silver Plot	Thilafushi 01	Labor Accommodation
210	Vantha Pvt Ltd	TIZ	TIZ	Warehousing, labor accommodation and boat building and repair
211	Villa Hakatha Pvt Ltd	Platinum Plot	Thilafushi 02	Warehousing
212	Villa Hakatha Pvt Ltd	Gold Plot	Thilafushi 02	All works allowed in Thilafushi
213	Damas Company Pvt Ltd	Silver Plot	Thilafushi 01	All Works allowed in Thilafushi
214	Maziya Service Pvt Ltd	TIZ	TIZ	Warehousing
215	Hassan Jawhary	Silver Plot	Thilafushi 01	Warehousing
216	Damas Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
217	Sirius Enterprises Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
218	Ahmed Lilal			building material storage
219	Sirius Enterprises Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
220	Eye Care Pvt Ltd	TIZ	TIZ	Warehousing, workshop and café

221	Ahmed Sameeru	Silver Plot	Thilafushi 01	Warehousing and Vessels/Vehicle repair
222	Thoha Mohamed	TIZ	TIZ	Warehousing and Carpentry work
223	Abdul Muhsin Hussain	Gold	-	Warehousing
224	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	N/A
225	Marine Coral Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
226	Marine Coral Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
227	Meridium Services Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and oil works
228	Tennssor Holdings Pvt Ltd	TIZ	TIZ	Warehousing and workshop
229	Wheel Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and workshop
230	Asian Power Investment Pvt Ltd	TIZ	TIZ	Vessel repair and production of machine
231	Mario Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Construction work
232	Haneefa Exzim Investment	Silver Plot	Thilafushi 01	Warehousing
233	Ahmed Sameeru	Silver Plot	Thilafushi 01	Warehousing and Workshop
234	Asir Nizar	Silver Plot	Thilafushi 01	Workshop
235	The Wiz Company Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing
236	Mohamed Yoosuf	TIZ	TIZ	Warehousing and brick works
237	Ali Ahmed	TIZ	TIZ	Warehousing, Café, Shop & Workshop
238	The Hawks Pvt Ltd	Silver Plot	Thilafushi 01	Retail shop, oil supply, brick work, café and boat building
239	Ahmed Luthfee	Silver Plot	Thilafushi 01	Fiber glass speed boat & fishing boat building and boat repair
240	LoneStar Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing, workshop and labor accommodation
241	Maldives Petroleum Link Pvt Ltd	TIZ	TIZ	Warehousing, labor accommodation and maintenances work
242	Mohamed Waheed Hassan	TIZ	TIZ	Warehousing, shop, café and workshop
243	Rayline Services Pvt Ltd	TIZ	TIZ	Warehousing
244	Mario Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Construction work
245	The Hawks Pvt Ltd	Silver Plot	Thilafushi 01	Retail shop, oil supply, brick work, café and boat building
246	Denicon Construction & Trading Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and construction work
247	Ahmed Naseer	TIZ	TIZ	Warehousing
248	Rishtha Company Pvt Ltd	TIZ	TIZ	Warehousing and brick works
249	Tennssor Holdings Pvt Ltd	TIZ	TIZ	Heavy machinery storage and services
250	Abdulla Abdul Sattar	Silver	Thilafushi 01	Workshop
251	Abdulla Salih	TIZ	TIZ	Warehousing & Workshop
252	Afeef Mohamed	TIZ	TIZ	Labor Accommodation & Café Fiber Glass Work (Allowed through letter)

253	Ahmed Amir	Silver	Thilafushi 01	All Works allowed in Thilafushi
254	Ahmed Mujah	TIZ	TIZ	Warehousing
255	Ali Abdulla	Silver Plot	Thilafushi 01	Workshop
256	Ali Ahmed	TIZ	TIZ	Warehousing, Café, Shop & Workshop
257	Ali Rasheed	Silver Plot	Thilafushi 01	Warehousing
258	Alia Investments Pvt Ltd	TIZ	TIZ	Warehousing and workshop
259	Alia Investments Pvt Ltd	TIZ	TIZ	Warehousing and workshop
260	Alia Investments Pvt Ltd	TIZ	TIZ	Warehousing and workshop
261	Bric Construction	TIZ	TIZ	Workshop and warehouse
262	Coastline Investments Pvt Ltd	Silver Plot	Thilafushi 01	Warehouse
263	Denicon Construction & Trading Pvt Ltd	Silver Plot	Thilafushi 01	Labor Accommodation and shop
264	Dhiraagu	Silver Plot	Thilafushi 01	Mobile antenna
265	Gasim Mahmood	TIZ	TIZ	Workshop
266	Heavy Force Pvt Ltd	Gold Plot	Thilafushi 01	Engineering works
267	Hussain Khalid	TIZ	TIZ	Warehousing & labor accommodation
268	Hussain Nazeeh	Silver Plot	Thilafushi 01	Warehousing
269	Hussain Rasheed	TIZ	TIZ	Warehousing
270	Hussain Shiyam	TIZ	TIZ	Warehousing
271	Hussain Waheed	TIZ	TIZ	Workshop
272	Ibrahim Ali	TIZ	TIZ	Carpentry
273	Jiaz Maldives Pvt Ltd	Silver Plot	TIZ	Warehousing and labor accommodation
274	Meridium Services Pvt Ltd	Silver Plot	Thilafushi 01	Oil works
275	Misraab Trading Co Pvt Ltd	TIZ	TIZ	Warehousing
276	Mohamed Abdul Sattar	Silver Plot	TIZ	Warehousing
277	Mohamed Haleel	Silver Plot	-	Warehousing and workshop
278	Mohamed Musthag	TIZ	TIZ	Warehousing and workshop
279	Mohamed Naasih	-	-	Warehousing
280	Mohamed Rasheed Ahmed	Silver Plot	TIZ	Warehousing, café, workshop and shop
281	Mohamed Rasheed Hussain	TIZ	TIZ	Warehousing, workshop, brick work and machine production
282	Mohamed Shakir	Silver Plot	Thilafushi 01	Vehicle and engine repair
283	Mohamed Shareef	TIZ	TIZ	Metal sheet storage
284	Musthafa Fareed	TIZ	TIZ	Warehousing
285	Naadira Jameel	TIZ	TIZ	Show room and workshop
286	Nasrullah Abdul Waahid	TIZ	TIZ	Warehousing
287	Ocean Logistics Pvt Ltd	TIZ	TIZ	Warehousing of Construction Materials
288	Ooredhoo Maldives Pvt Ltd	Silver Plot	Thilafushi 01	Antenna
289	Pool Chemicals and Services Maldives Pvt Ltd	TIZ	TIZ	Radio station
290	Prestige Group Maldives Pvt Ltd	TIZ	TIZ	Warehousing

291	Relax Maldives Pvt Ltd	TIZ	TIZ	Warehousing, brick work and café
292	Relax Maldives Pvt Ltd	TIZ	TIZ	Warehousing, brick work and café
293	Relax Maldives Pvt Ltd	TIZ	TIZ	Brick work and workshop
294	Riffathulla Ali	TIZ	TIZ	Warehousing, café, workshop and shop
295	Riznee Mohamed	TIZ	TIZ	Warehousing, labor accommodation and hydroponics agriculture
296	Shen Maldives Raufa Construction Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing and labor accommodation
297	Standard and Origin Pvt Ltd	TIZ	TIZ	Warehousing and workshop
298	Standard and Origin Pvt Ltd	TIZ	TIZ	Warehousing and workshop
299	Tennssor Holdings Pvt Ltd	TIZ	TIZ	Heavy machinery storage and services
300	Tennssor Holdings Pvt Ltd	TIZ	TIZ	Heavy machinery storage and services
301	Try On Maldives Pvt Ltd	TIZ	TIZ	Marine engineering workshop
302	Umar Zahir	Silver Plot	Thilafushi 01	Clinic
303	Urban Investment Pvt Ltd	TIZ	TIZ	Warehousing
304	Well Land Investment Pvt Ltd	TIZ	TIZ	Warehousing and making of name board
305	Ahmed Nizar	Silver Plot	Thilafushi 01	Garage
306	B Company Pvt Ltd	TIZ	TIZ	Godown
307	Hussain Musthaq	Silver Plot	Thilafushi 01	Warehousing
308	Sunfront Pvt Ltd	Silver Plot	Thilafushi 01	Warehousing of Construction Materials
309	Wheel Pvt Ltd	Silver Plot	Thilafushi 01	Workshop
310	Equalise Investment Pvt Ltd	TIZ	TIZ	Auto Repair and maintenance services
311	Aboobakuru Jauhary	TIZ	TIZ	Vehicles Paintings and cleaning works
312	Moosa Ali	TIZ	TIZ	metal fabrication
313	Aujaz Hassan	TIZ	TIZ	Workshop and brick work
314	Department of Public Health	Silver Plot	Thilafushi 01	Warehousing
315	Department of Public Health	Silver Plot	Thilafushi 01	Warehousing
316	State Electric Company Ltd	Silver Plot	Thilafushi 02	Electricity sevices to Thilafushi
317	State Electric Company Ltd	Silver Plot	Thilafushi 02	Electricity sevices to Thilafushi
318	State Electric Company Ltd	Silver Plot	Thilafushi 02	Electricity sevices to Thilafushi
319	State Electric Company Ltd	Silver Plot	Thilafushi 02	Electricity sevices to Thilafushi
320	Greater Male' Industrial Zone Limited		Thilafushi	Overall administration and management of Thilafushi and Gulhifalhu

## APPENDIX B: Maps of Thilafushi and Gulhifalhu with the surveyed individuals and companies located

### INDIVIDUALS LOCATIONS



### COMPANIES LOCATIONS



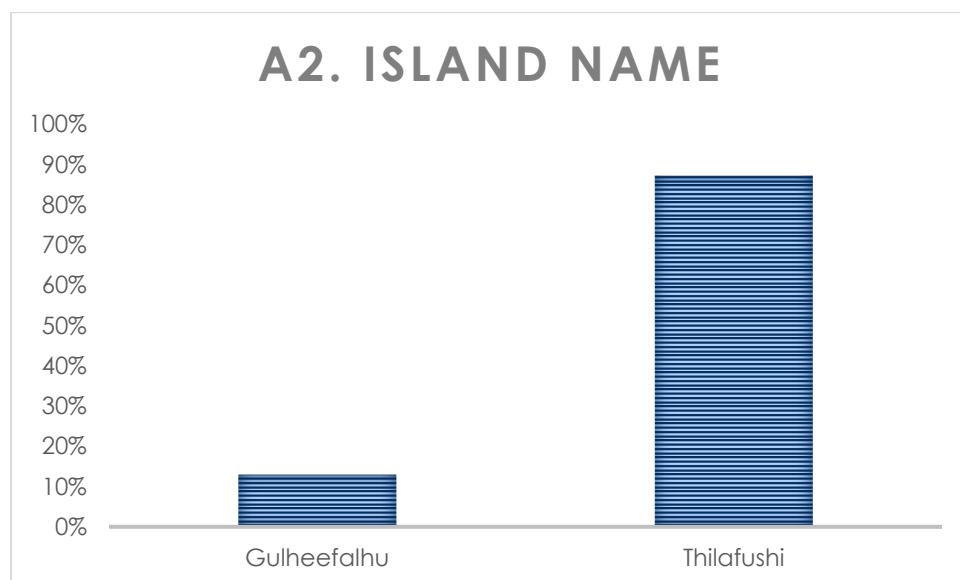
## **APPENDIX C: Questionnaires for Individual and Company Surveys**

**(Attached as a separate file)**

## APPENDIX D: Graphical representation of data obtained from individual survey

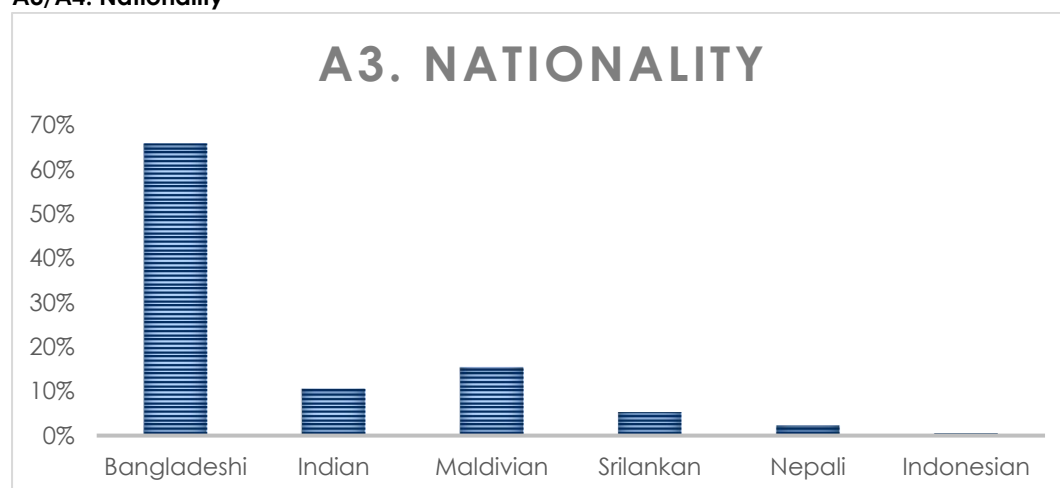
### A. GENERAL INFORMATION: RESPONDENT

#### A2. Island Name



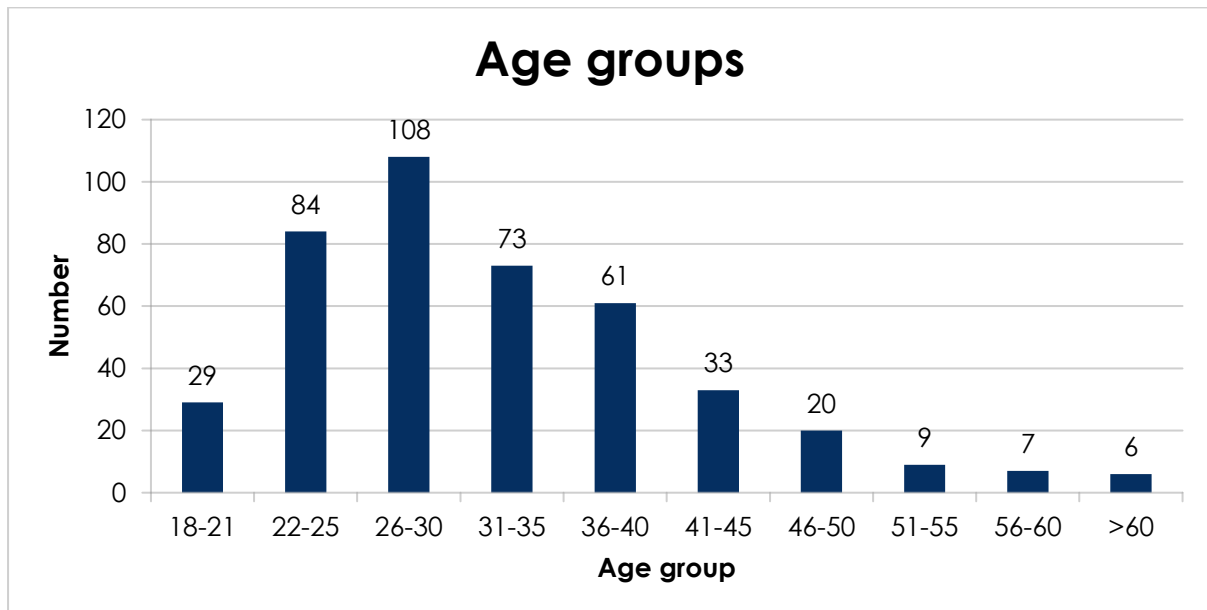
Gulheefalhu	56	13%
Thilafushi	378	87%

#### A3/A4. Nationality



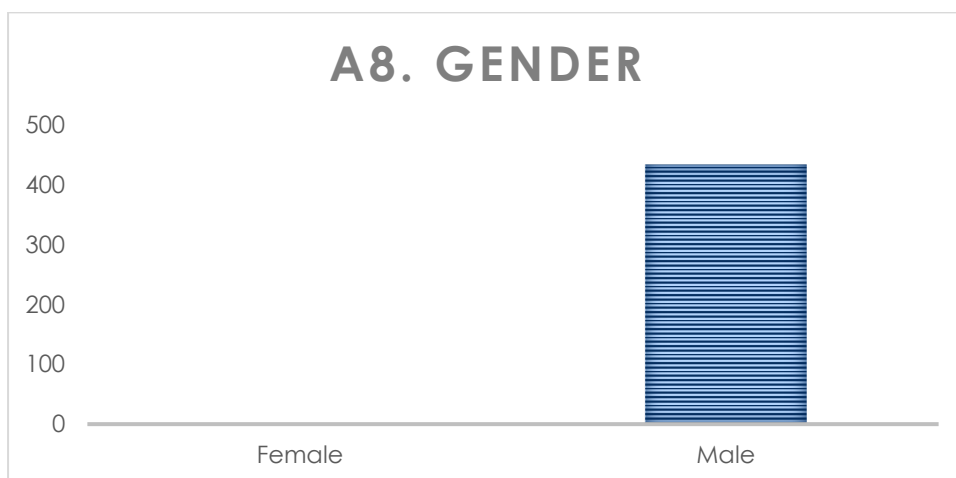
Bangladeshi	286	66%
Indian	46	11%
Maldivian	67	15%
Srilankan	23	5%
Nepali	10	2%
Indonesian	2	0%

#### A7. Age group



Age group	Count
18-21	29
22-25	84
26-30	108
31-35	73
36-40	61
41-45	33
46-50	20
51-55	9
56-60	7
>60	6
	<b>430</b>

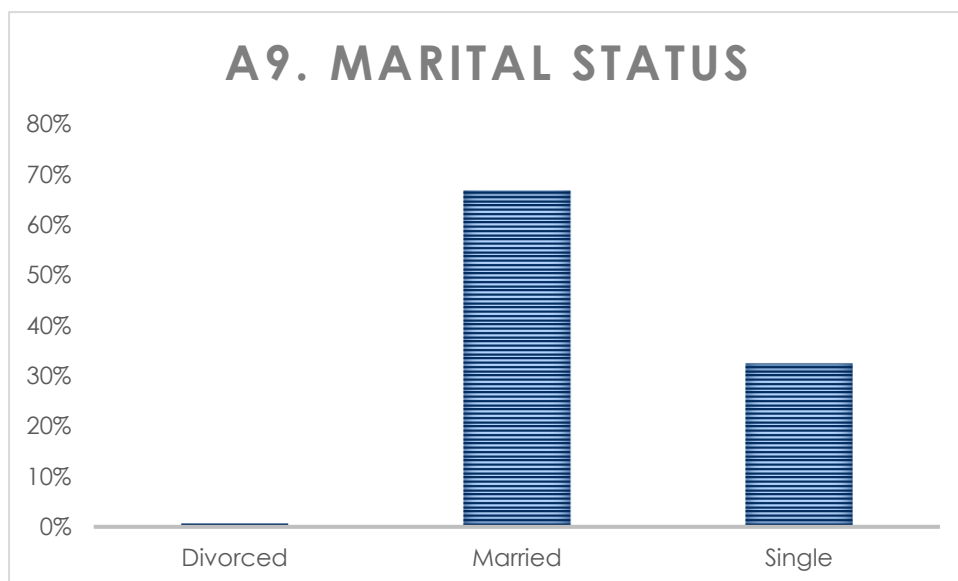
#### A8. Gender



Female	1
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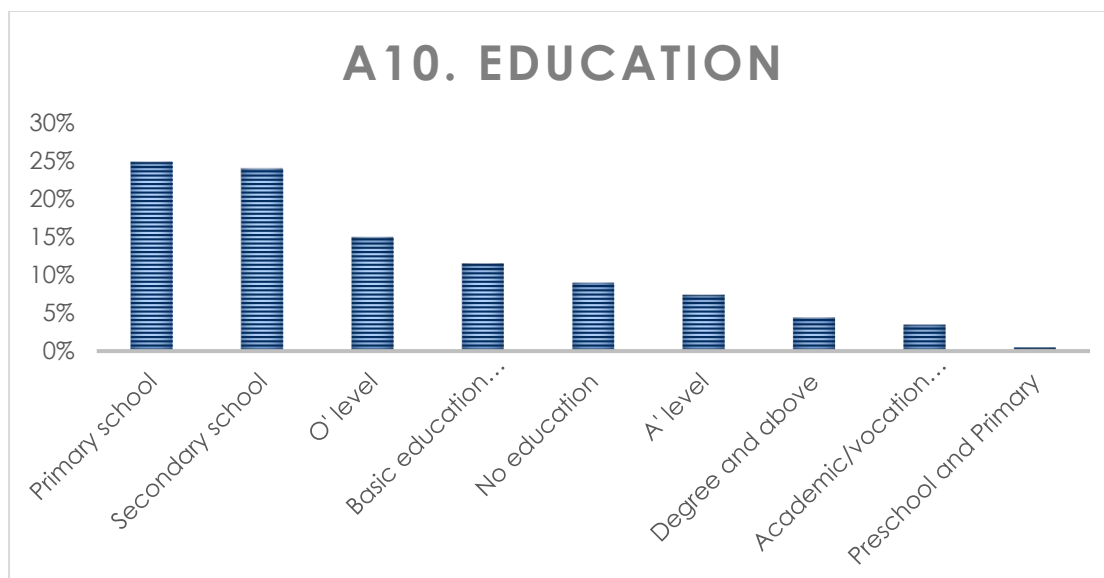
Male	429
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#### A9. Marital Status



Divorced	3	1%
Married	290	67%
Single	141	32%

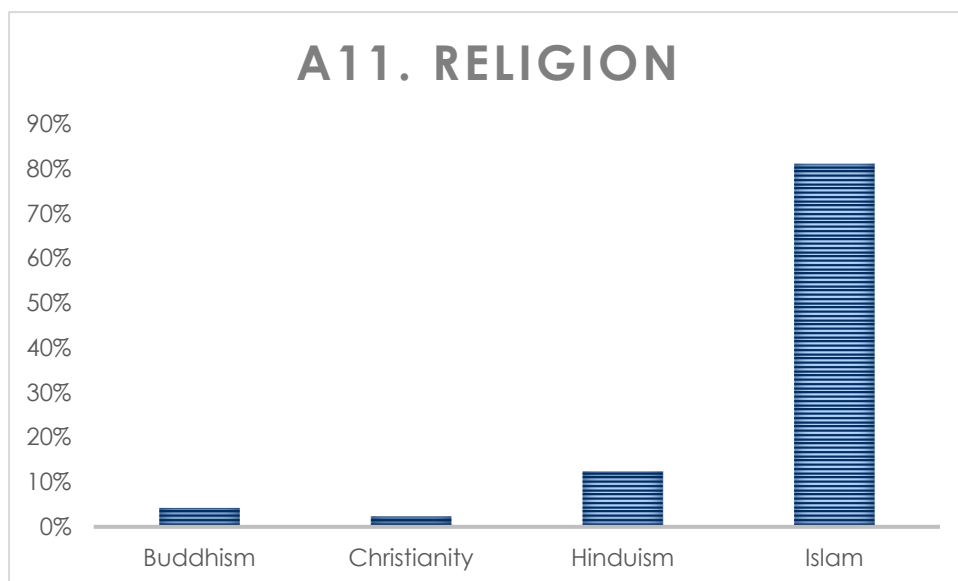
#### A10. Education



Primary school	108	25%
Secondary school	104	24%
O' level	65	15%
Basic education (basic literacy)	50	12%
No education	39	9%
A' level	32	7%

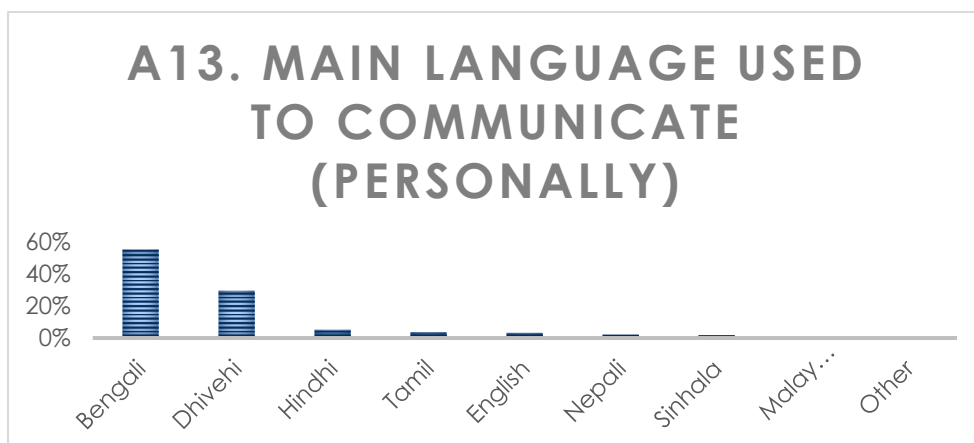
Degree and above	19	4%
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#### A11/A12. Religion



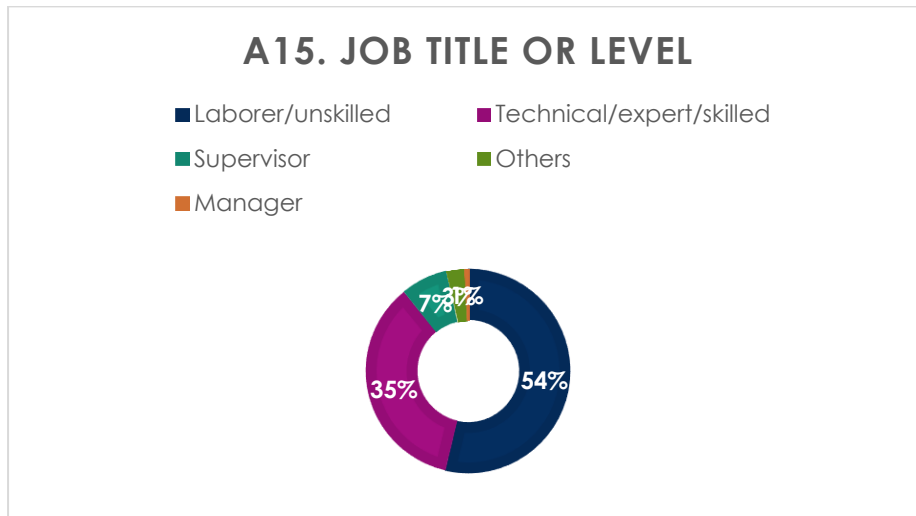
Buddhism	18	4%
Christianity	10	2%
Hinduism	54	12%
Islam	352	81%

#### A13/A14. Main Language used to communicate



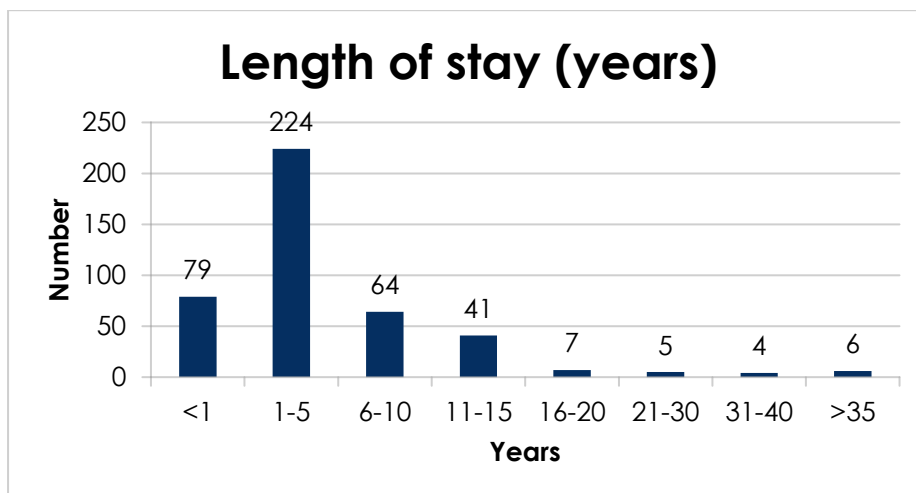
Bengali	239	55%
Dhivehi	127	29%
Hindhi	22	5%
Tamil	15	3%
English	13	3%
Nepali	9	2%
Sinhala	7	2%
Malayalam	1	0%

#### A15. Job Title/ or Level



Laborer/unskilled	233	54%
Technical/expert/skilled	154	35%
Supervisor	32	7%
Others	12	3%
Manager	3	1%

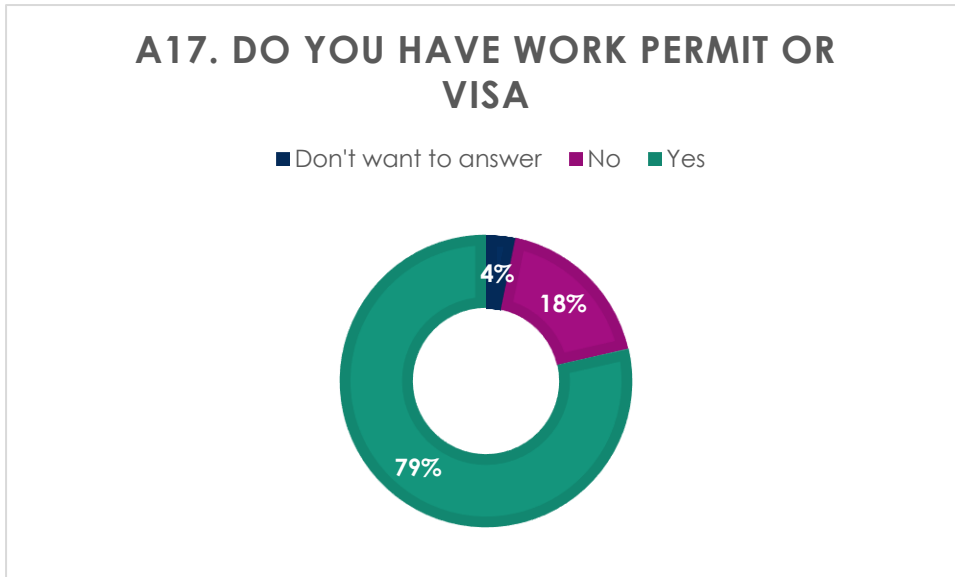
#### A16. Length of Stay



Length of stay (years)	Count
<1	79
1-5	224
6-10	64
11-15	41
16-20	7
21-30	5
31-40	4

>35	6
	<b>430</b>

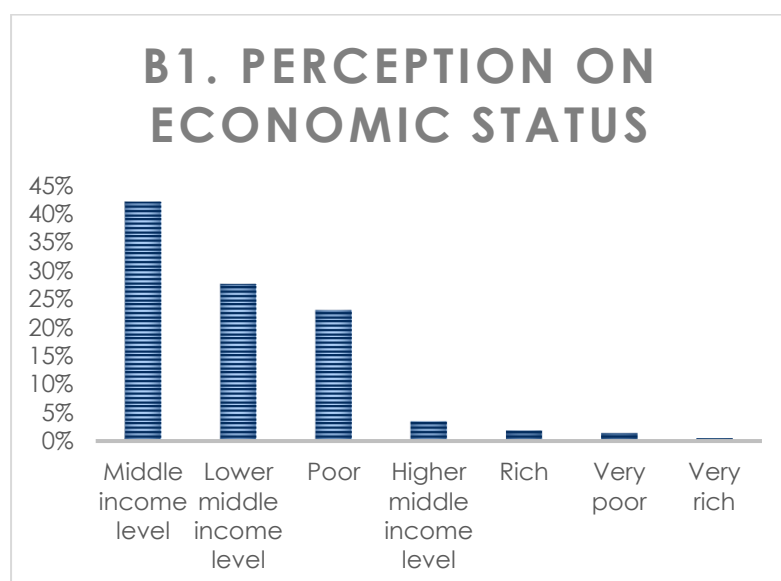
**A17. Do you have a work permit?**



Don't want to answer	15	4%
No	78	18%
Yes	337	78%

## B. INCOME, EXPENDITURE AND SAVINGS

### B1. Perception on Economic status

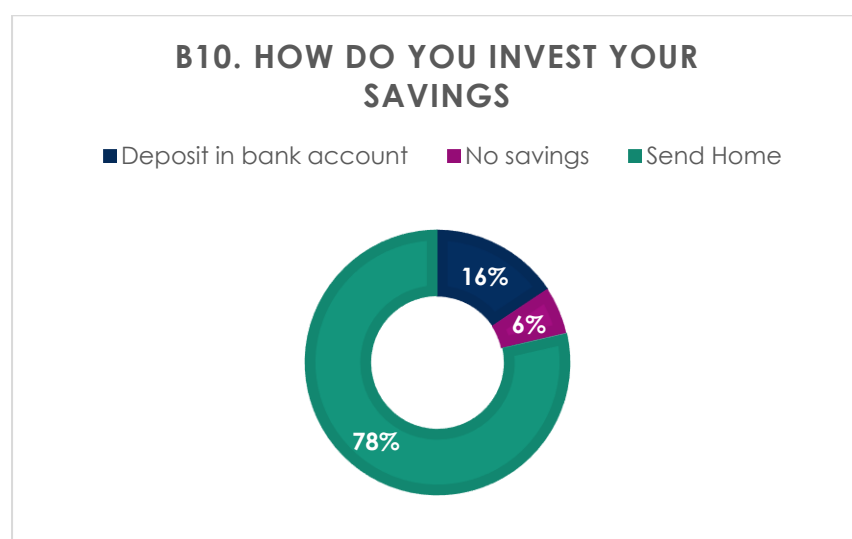


Middle income level	183	42%
Lower middle income level	120	28%
Poor	100	23%
Higher middle income level	15	3%
Rich	8	2%
Very poor	6	1%
Very rich	2	0%

### B2/B3/B4/B6/B7/B8. Estimated monthly expenditure

Expenditure (MVR)	Number of people who spent on:						
	B2. Food & Drinks	B3. House Rent	B4. House Maintenance	B5. Healthcare	B6. Electricity	B7. Water	B8. Communication
0-499	253	395	404	396	402	403	149
500-999	40	1	7	14	9	13	205
1000-1499	47	3	3	10	5	2	45
1500-1999	36	3	2	1	3	1	14
2000-2499	15	1	3	4	5	6	11
2500-2999	1	1	2	0	1	0	0
3000-3499	13	2	2	1	0	1	2
3500-3999	2	1	1	0	0	2	0
4000-4499	5	1	1	0	1	1	2
Above 5000	18	22	5	4	4	1	2

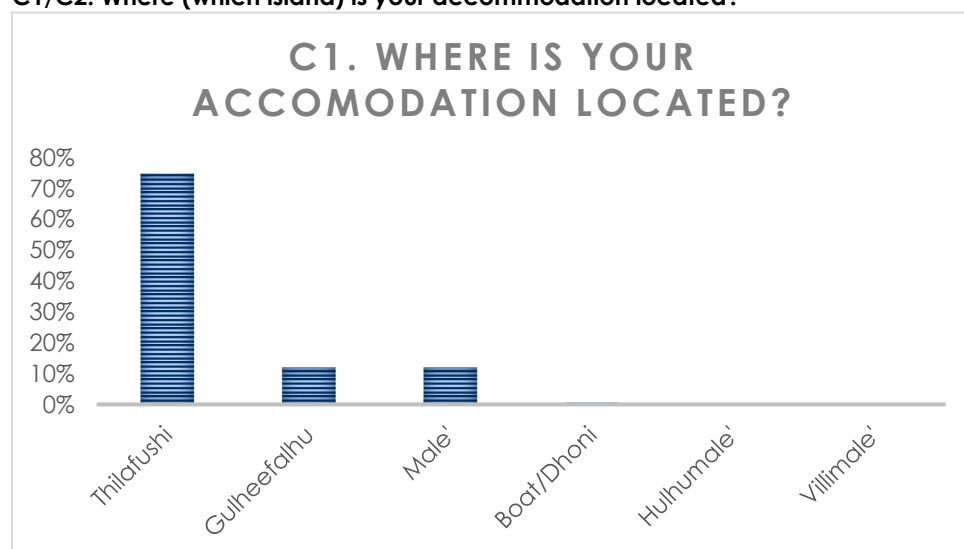
## B10. How do you invest your savings?



Deposit in bank account	68	16%
No savings	25	6%
Send Home	341	78%

## C. HOUSING, INFRASTRUCTURE AND BASIC SERVICES

### C1/C2. Where (which island) is your accommodation located?

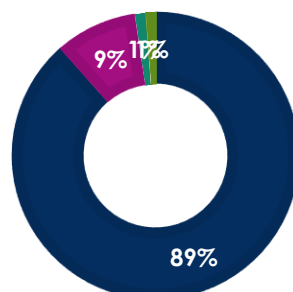


Thilafushi	320	74%
Gulheefalhu	52	12%
Male'	52	12%
Boat/Dhoni	3	1%
Hulhumale'	2	0.47%
Villimale'	1	0.23%

### C3. Who owns the property (House/dwelling)?

#### C3. WHO OWNS THE PROPERTY (HOUSE/DWELLING)?

■ provided by employer ■ Rented ■ Not paying rent ■ Own property

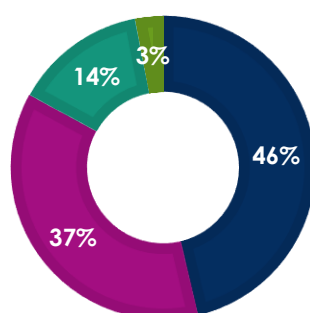


provided by employer	384	88%
Rented	40	9%
Not paying rent	5	1%
Own property	5	1%

### C4. What type of accommodation do you live in?

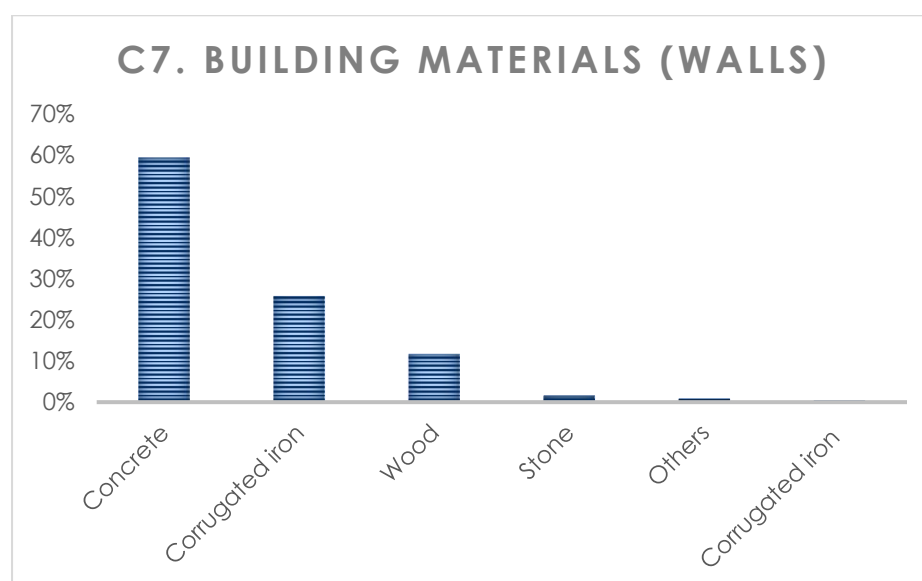
#### C4. WHAT TYPE OF ACCOMODATION DO YOU LIVE IN?

■ Shared rooms ■ Living quarters ■ Single rooms ■ Project/work site



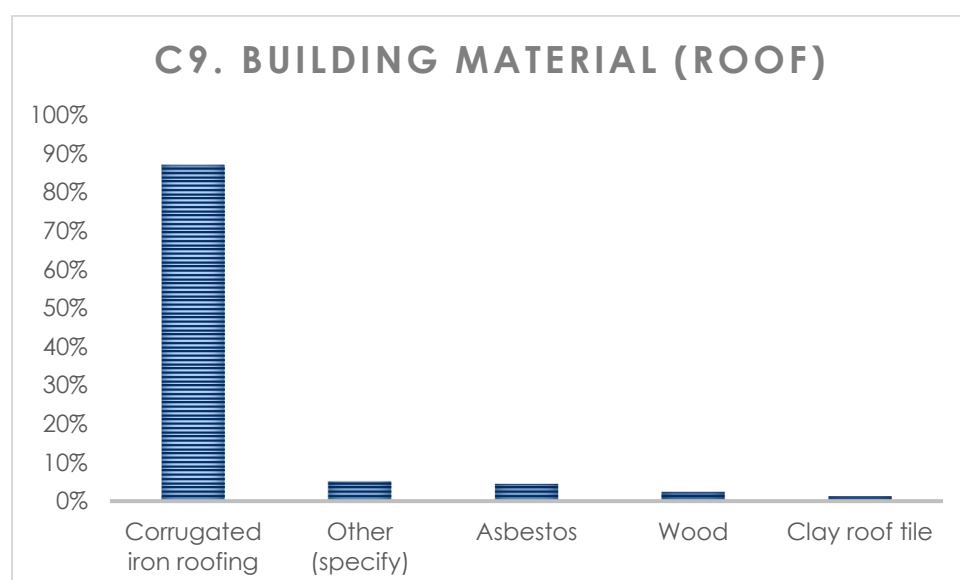
Shared rooms	201	46%
Living quarters	159	37%
Single rooms	61	14%
Project/work site	13	3%

### C7/C8. Building material (Walls)



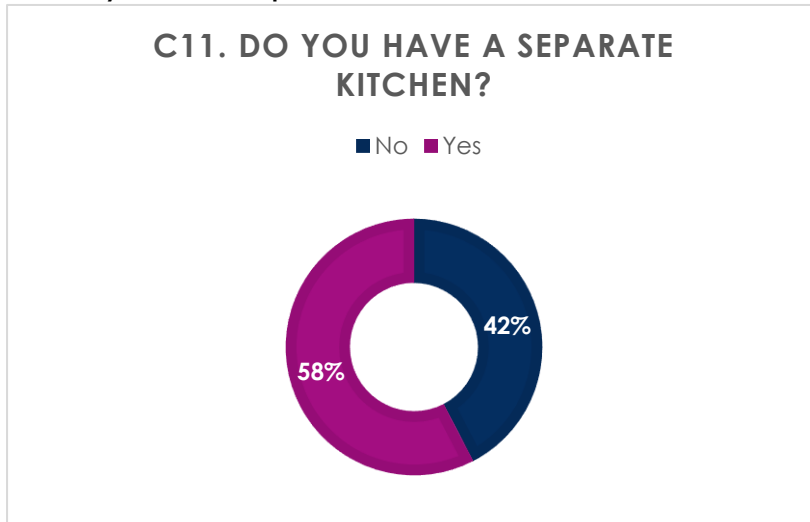
Concrete	258	60%
Corrugated iron	108	25%
Wood	51	12%
Stone	7	2%
Others	4	1%
Corrugated iron	2	0%

### C9/C10. Building material (Roof)



Corrugated iron roofing	378	87%
Other (specify)	22	5%
Asbestos	19	4%
Wood	10	2%
Clay roof tile	5	1%

**C11. Do you have a Separate kitchen?**



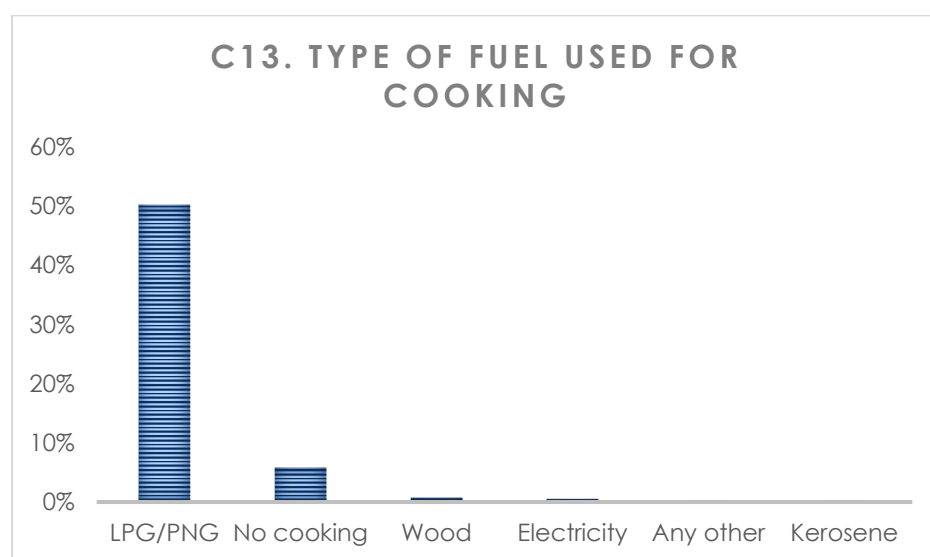
No	184	42%
Yes	250	58%

**C12. If yes, do you prepare your own food?**



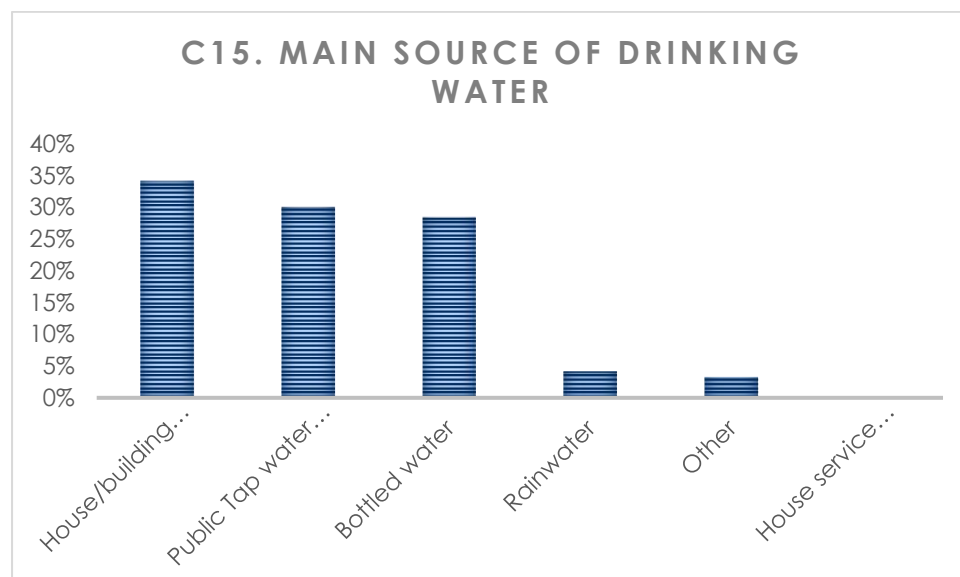
No	106	42
Yes	144	58

**C13/C14. What type of fuel is used for cooking?**



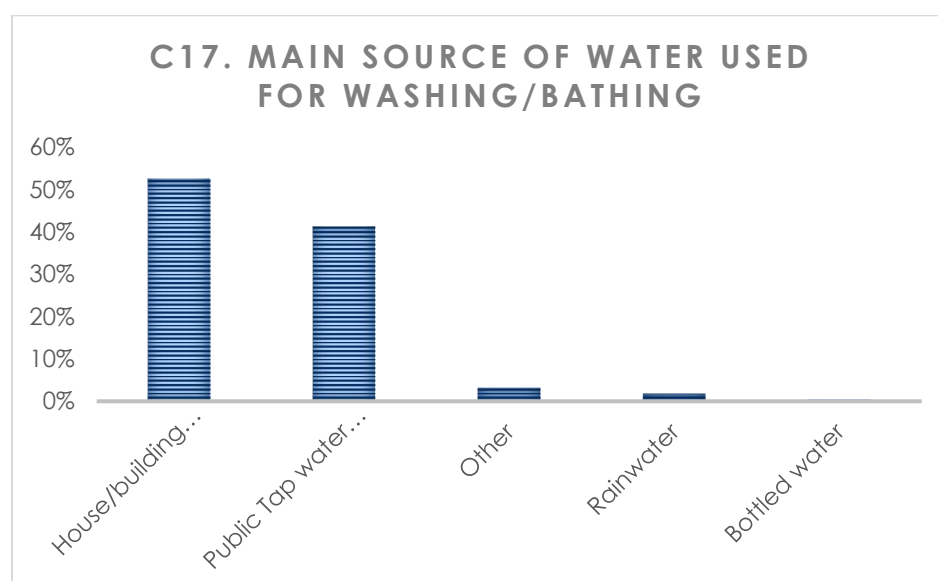
LPG/PNG	218	50%
No cooking	25	6%
Wood	3	1%
Electricity	2	0%
Any other	1	0%
Kerosene	1	0%

**C15/C16. Main source of drinking water**



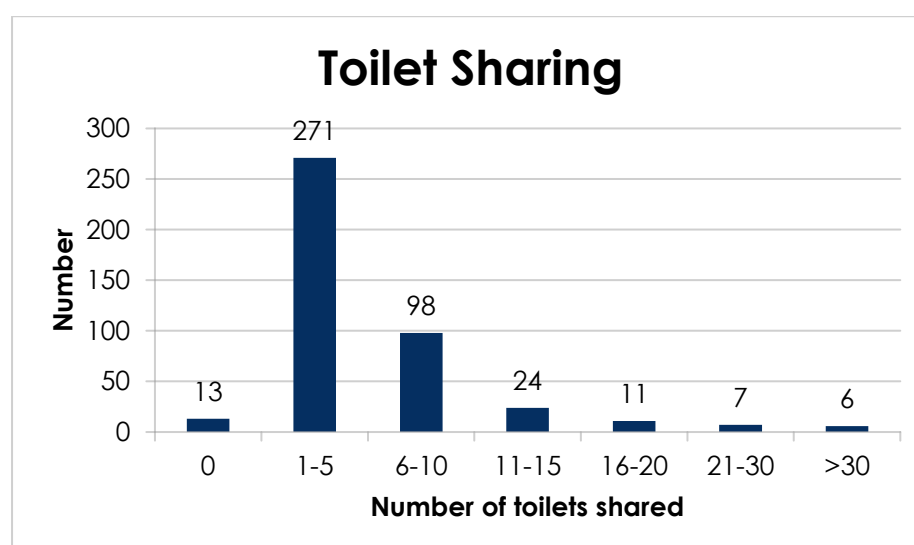
House/building service Connection	148	34%
Public Tap water from treated source	130	30%
Bottled water	123	28%
Rainwater	18	4%
Other	14	3%
House service Connection	1	0%

**C17/C18. Main source of water used for washing/ bathing**



House/building service Connection	228	53%
Public Tap water from treated source	179	41%
Other	14	3%
Rainwater	8	2%
Bottled water	2	0%

**C20. Number of toilets shared**

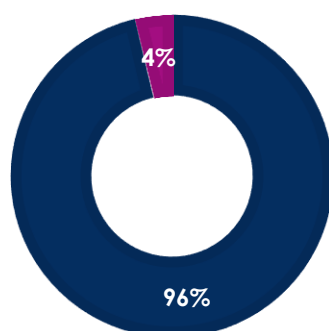


Number of toilets shared	Count
0	13
1-5	271
6-10	98
11-15	24
16-20	11
21-30	7
>30	6
	<b>430</b>

**C21. What Types of Latrines are in the accommodation facility?**

**C21. WHAT TYPES OF LATRINES ARE IN ACCOMODATION FACILITY?**

■ Flush latrine connected to piped sewer system ■ Other

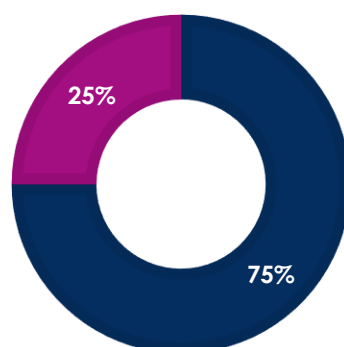


Flush latrine connected to piped sewer system	414	96%
Other	16	4%

**C22/C23. Alternate source of toilet used**

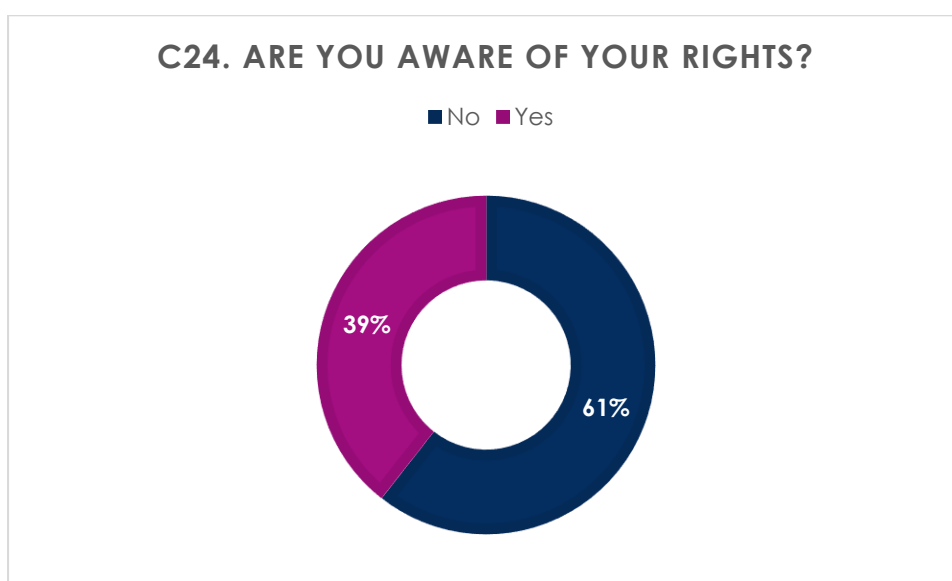
**C22. ALTERNATIVE SOURCE OF TOILET USED**

■ Other ■ Public toilet



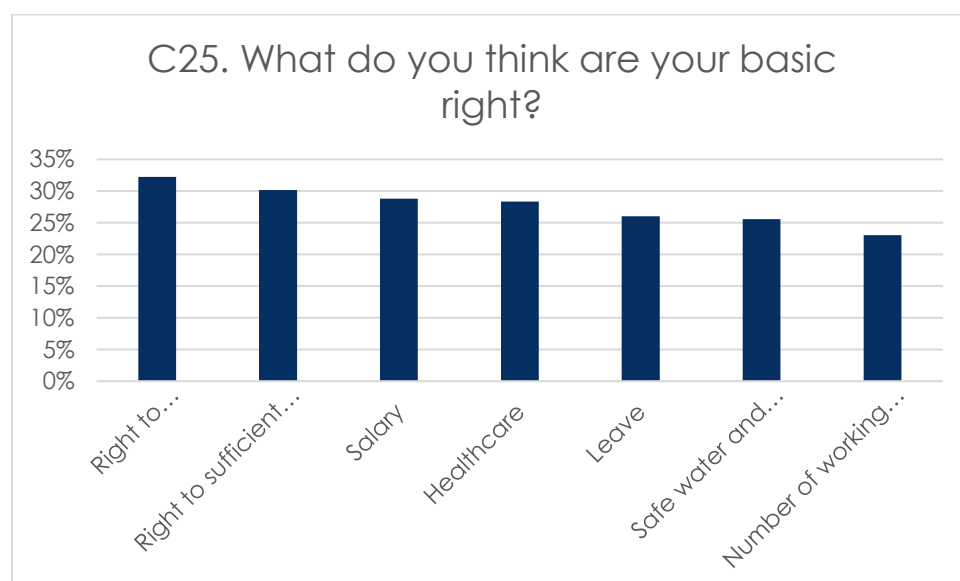
Other	15	83%
Public toilet	3	17%

**C24. Are you aware of your rights?**



No	263	61%
Yes	167	39%

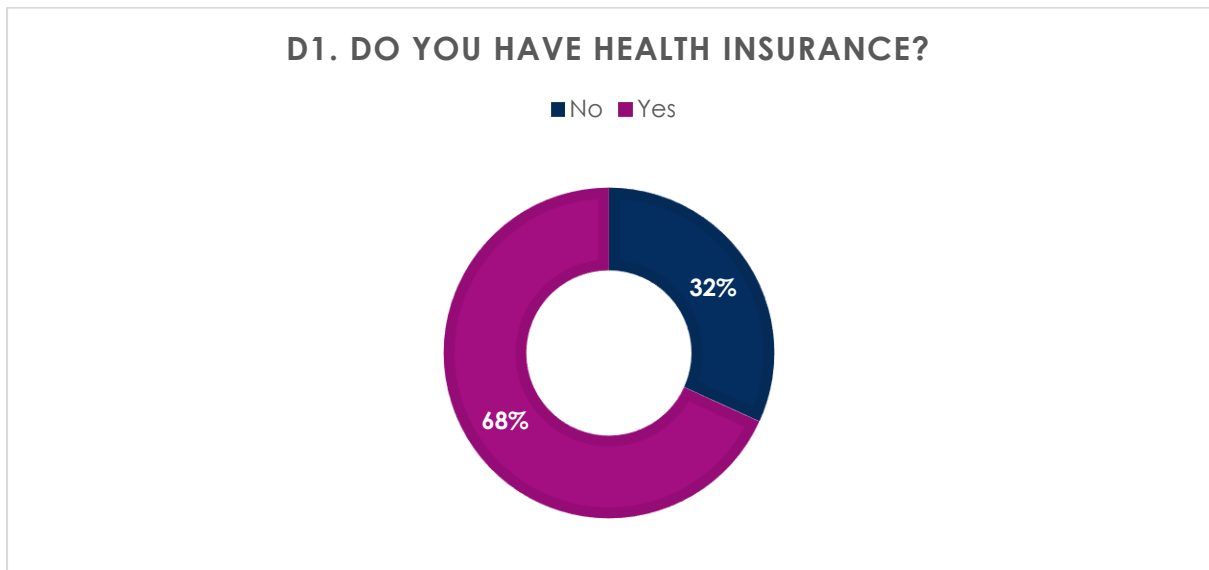
**C25.What do you think are your basic rights?**



Right to accommodation	140	32%
Right to sufficient foods/meals	131	30%
Salary	125	29%
Healthcare	123	28%
Leave	113	26%
Safe water and sanitation	111	26%
Number of working hours	100	23%

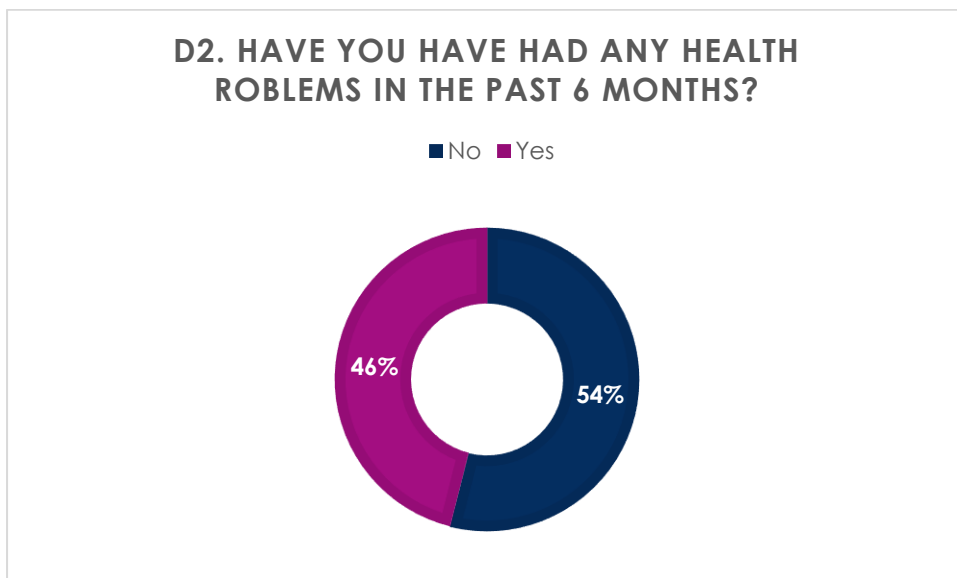
## D. HEALTH CONDITION AND HEALTH CARE SERVICES

### D1. Do you have health insurance?



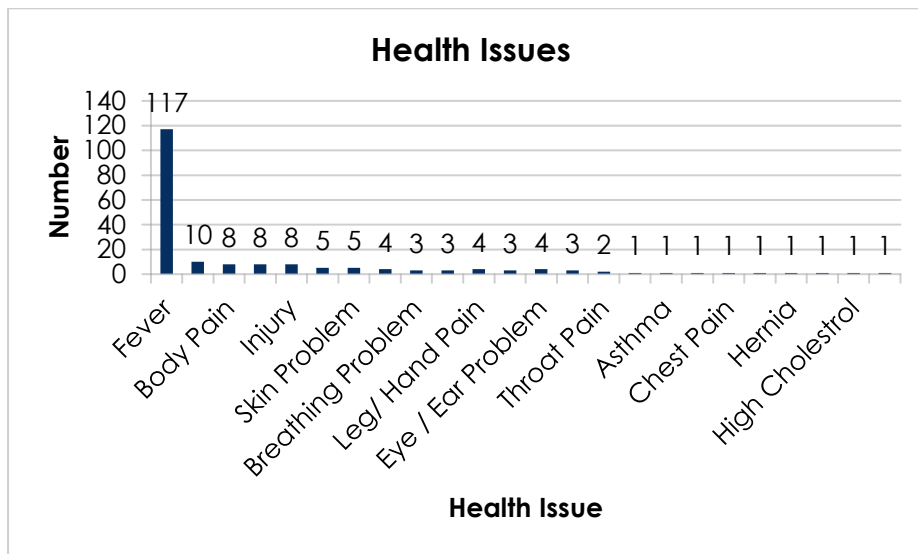
No	138	32%
Yes	296	68%

### D2. Have you have had any health problems in the past 6 months?



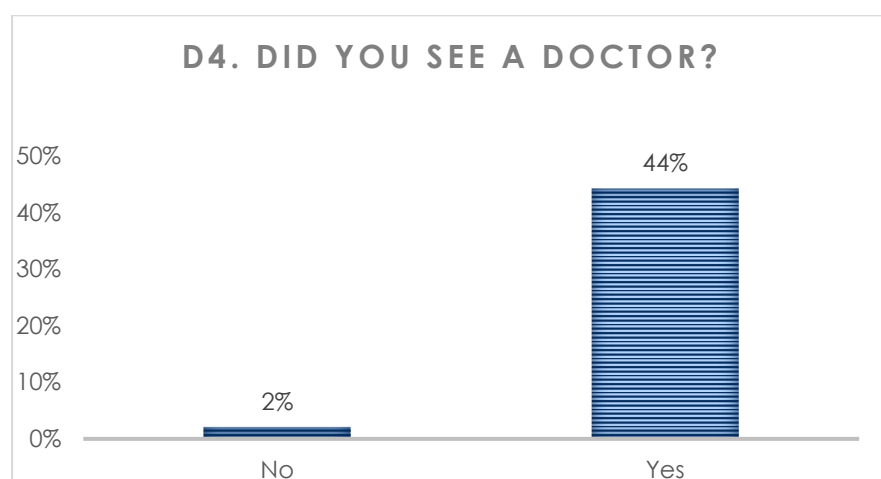
No	234	54%
Yes	200	46%

### D3. Health Issues



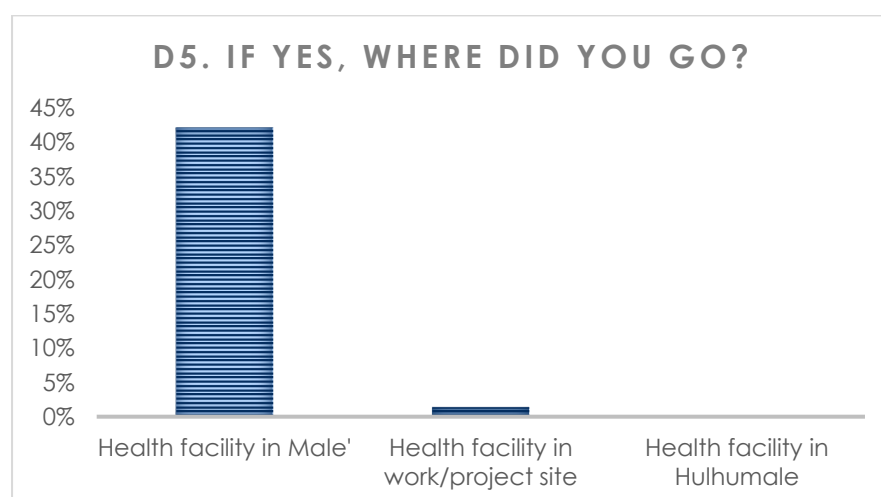
Health Issue	Count
Fever	117
Fever & Cold	10
Body Pain	8
Cold	8
Injury	8
Chikungunya	5
Skin Problem	5
Dengue	4
Breathing Problem	3
Headache	3
Leg/ Hand Pain	4
Tooth Pain	3
Eye / Ear Problem	4
Stomach Pain	3
Throat Pain	2
Allergy	1
Asthma	1
Back Pain	1
Chest Pain	1
Diabetics	1
Hernia	1
High Blood Pressure	1
High Cholestrol	1
Other	1
	196

**D4. Did you see a doctor?**



No	9	2%
Yes	192	44%

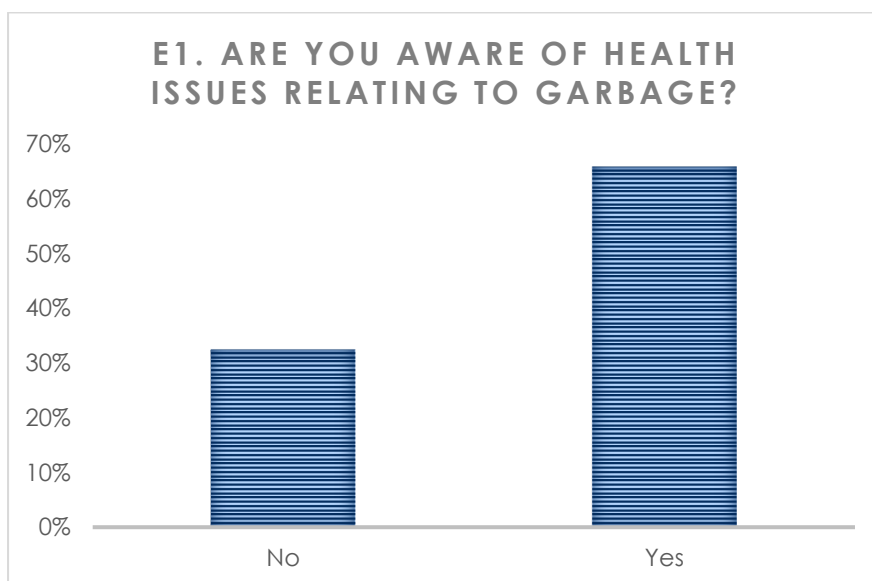
**D5. If yes, where did you go?**



Health facility in Male'	183	42%
Health facility in work/project site	6	1%
Health facility in Hulhumale	1	0%

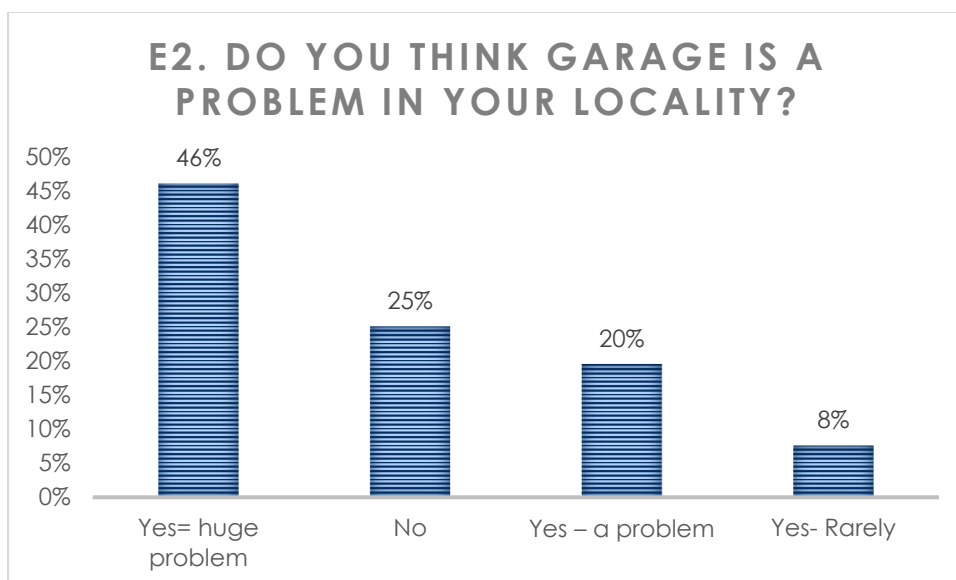
## E. SOLID WASTE MANAGEMENT

**E1. Are you aware of any health issues relating to garbage/ waste management?**



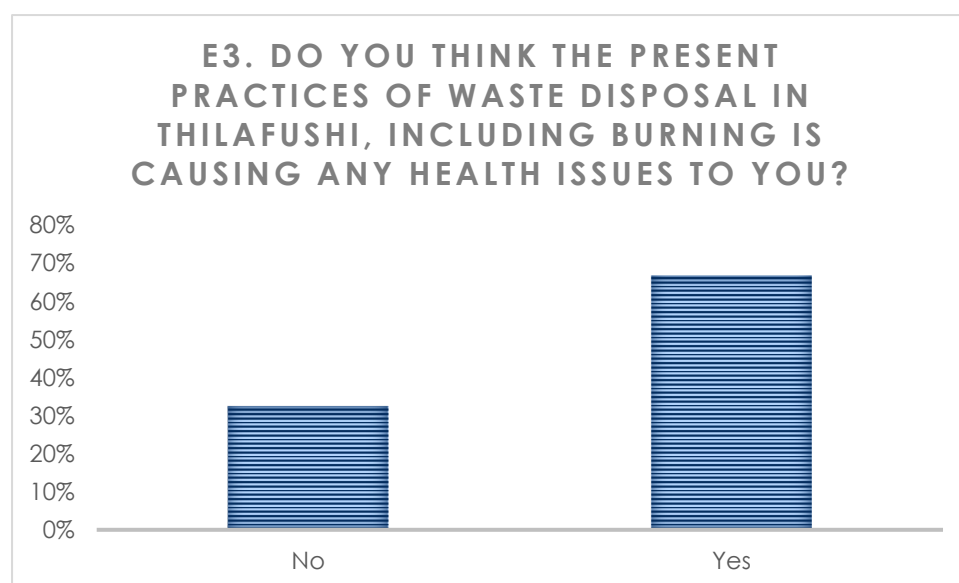
No	141	32%
Yes	286	66%
(blank)	7	2%

**E2. Do you think garbage is a problem in your locality?**



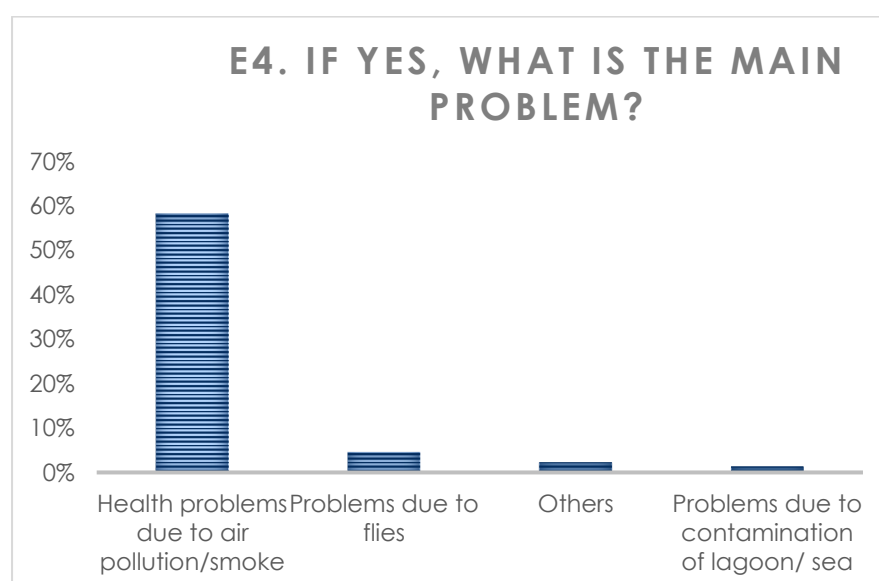
Yes= huge problem	200	46%
No	109	25%
Yes – a problem	85	20%
Yes- Rarely	33	8%
(blank)	7	2%

**E3. Do you think the present practices of waste disposal in Thilafushi, including burning is causing any health issues to you?**



No	141	32%
Yes	290	67%
(blank)	3	1%

**E4/E5. If yes, what are the problems?**



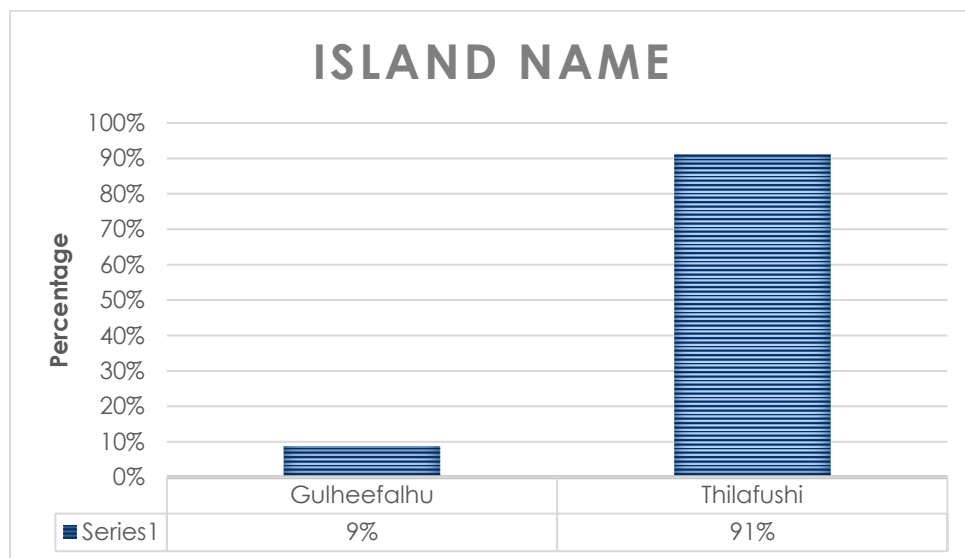
Health problems due to air pollution/smoke	253	58%
Problems due to flies	20	5%
Others	10	2%
Problems due to contamination of lagoon/ sea	6	1%
(blank)	145	33%

## APPENDIX E: Graphical representation of data obtained from company survey

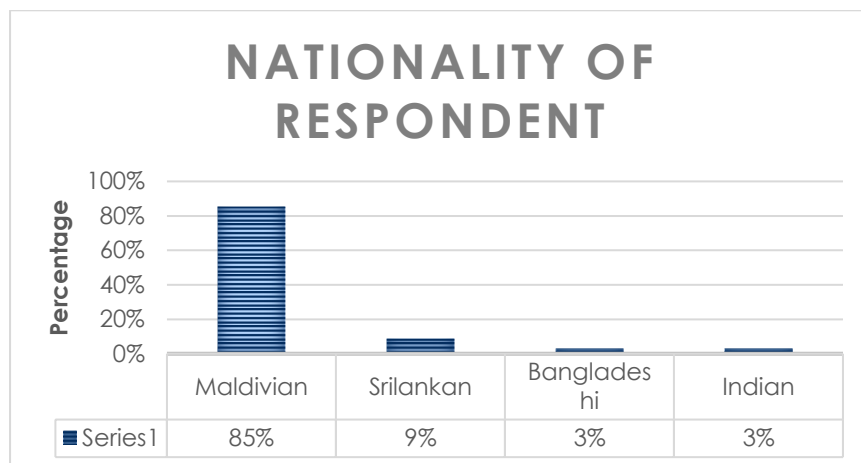
### DATA AND GRAPHS – COMPANY SURVEY

#### A. GENERAL INFORMATION

##### A2. Island Name



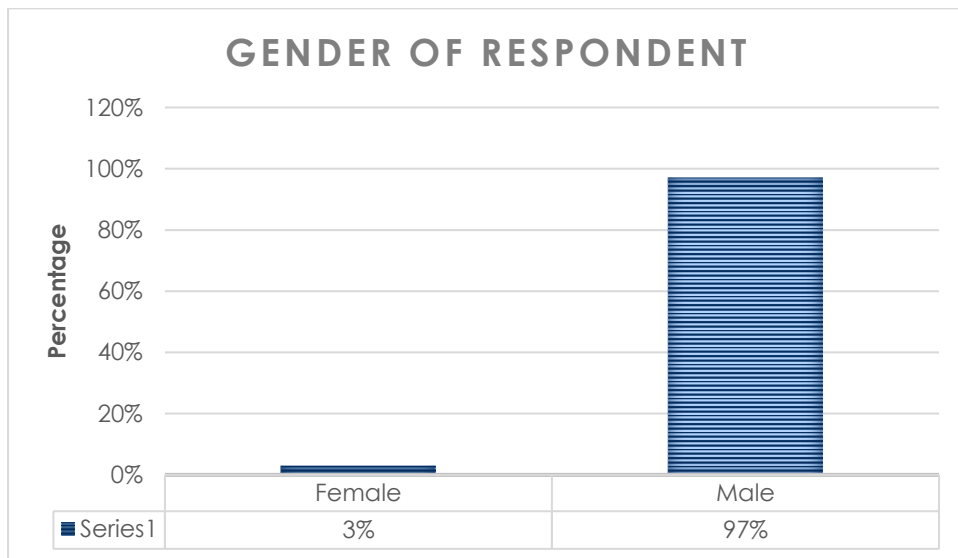
##### A3 & A4 Nationality (of respondent)



##### A5. Name of Respondent

(Data not to be disclosed)

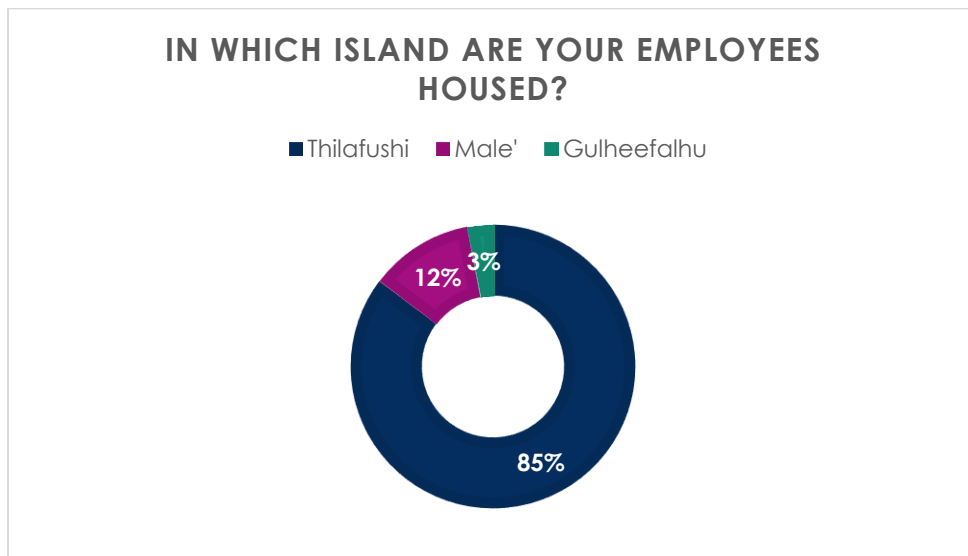
#### A6. Gender (of respondent)



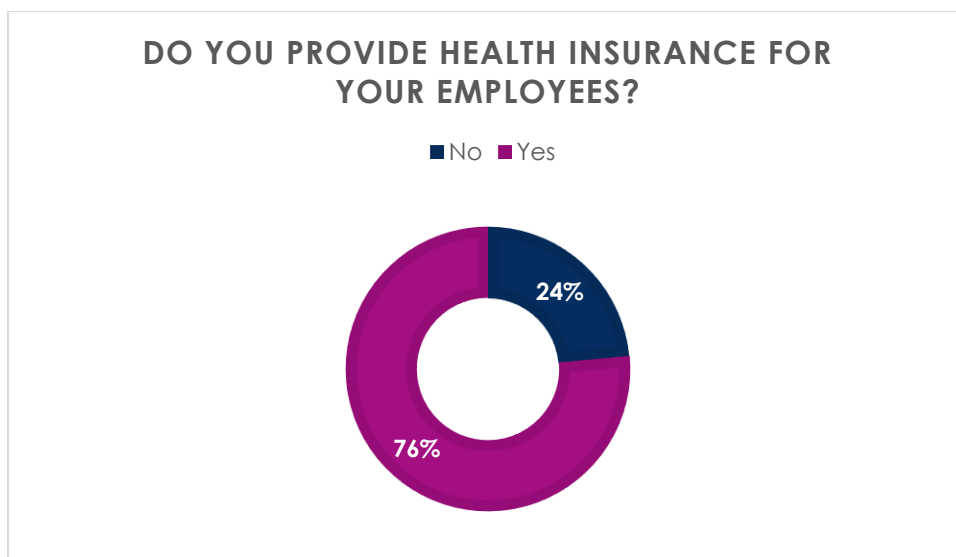
## A7, A8 and A9. Company Name, Key Activities and Total Number of Employees

#	A2. Island Name	A7. Company Name	A8. What are the key Activities conducted by the company?	A9. Number of employees?	Gender
1	Thilafushi	Villa Hakatha	Delivery, gas, cement petrol and diesel	130	men
2	Thilafushi	Villa Hakatha F n B	Food and Beverage services, restaurant services	24	men
3	Thilafushi	Batch construction PVT LTD	Warehouse, storing metal, wood and electrical supplies	15	men
4	Thilafushi	Wheel pvt ltd	Leasing tugboats, excavators etc., Repairing and maintenance of vehicles and vessels, Taking projects such as land reclamation	10	men
5	Thilafushi	Mtcc	Warehouse and slipway, boat building and boat repair	180	men
6	Thilafushi	IZ	Workshop	No information	
7	Thilafushi	Eve garment	All works allowed in Thilafushi	No information	
8	Thilafushi	Leo trading	In Thilafushi they have mechanical and technical staff as the main work done there is the maintenance of assets such as landing craft, excavators etc.	47	men
9	Thilafushi	Sony hardware	Warehouse, storing and packaging	200	men
10	Thilafushi	Lafarge Maldives	Cement Factory	No information	
11	Thilafushi	MALDIVE GAS	LPG filling	29	men
12	Thilafushi	WAMCO	Solid waste management services, conduct clean up programs	150	men
13	Thilafushi	Mpl thilafushi	Boat building and boat repair, vehicle garage	35	men
14	Thilafushi	Dhamas	warehouse and workshop, vehicle repair and garage, warehouse	No information	
15	Thilafushi	Nalahiya trahiya trading pvt ltd	Warehouse for constuction materials	200	men
16	Thilafushi	Maldives Structural Product MSP	manufacturing roofing products, corrugated iron sheets	15	men
17	Thilafushi	Raaje logistics pvt ltd	Logistics Work, Transportaion sea and land	33	men
18	Thilafushi	Leo Trade	Logistics work	33	men
19	Thilafushi	Sunfront	Repairing boats and logistics	25	men
20	Thilafushi	Static company (aqua reef)	Water plant and electrical work	19	men
21	Thilafushi	The Hawks	Oil supplier; boatyard for loading, unloading and repair; port harbour; workshop,	120	men
22	Thilafushi	Metco	Garage	5	men
23	Thilafushi	Thilafalhu cafe	Tea shop	7	men
24	Thilafushi	Heavy Force	Repair n maintenance of heavy vehicles, Precast Yard.	35	men
25	Thilafushi	Antrac (maldives petroleum	Heavy vehicles are rented out, sell diesel oil, have 3 landing crafts	28	men
26	Thilafushi	Gulf craft	Boat building n repair	130	1 woman
27	Thilafushi	Maldives police services	Serve and protect	25	men
28	Thilafushi	Best dives pvt ltd	Boat yard, engine repair	12	men
29	Thilafushi	Build Maldives Company	Ship Repair and maintenance	24	men
30	Gulheefalhu	Stelco	Provide electricity	6	men
31	Gulheefalhu	GMIZ	Manage all services related to tenants including municipal services such as road maintenance, land lease, and conflict resolution. Tree plantation to make the island green	35	men
32	Gulheefalhu	Litus	Storage and workshop	15	men
33	Thilafushi	Apollo	Loading and unloading cargo	230	men
34	Thilafushi	GMIZ	Tenants related all municipal service including road works; Conflict resolution; land leasing and monitoring	155	men

**A10. In which island are your employees housed?**



**A11. Do you provide health insurance for your employees?**

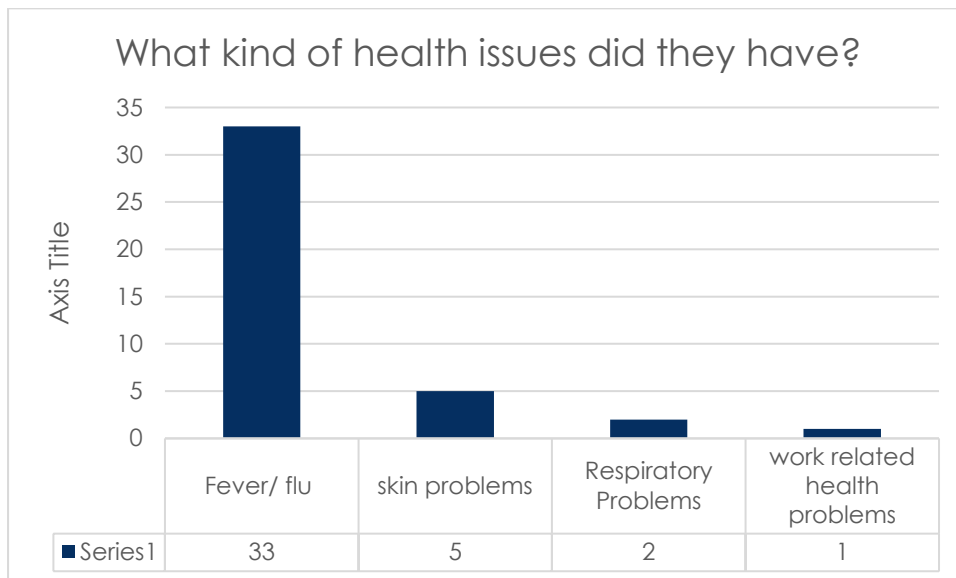


Note: Maldivian Nationals have access to the Government Health Insurance Scheme – Aasandha.

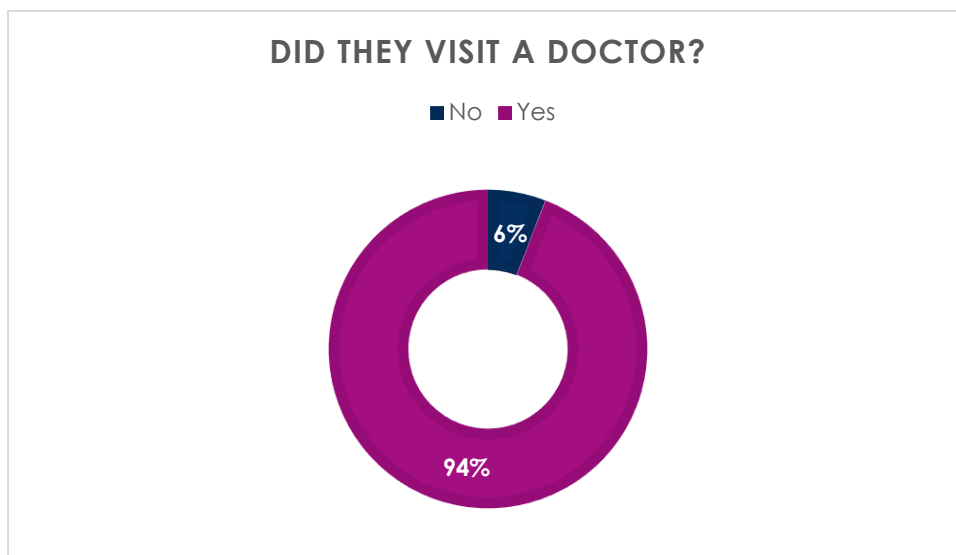
## A12. How many of your employees have reported sick in the past year?

	A2. Island Name	A7. Company Name	A9. Total number of employees?	A12. How many of your employees have reported sick in the past year?
1	Thilafushi	Villa Hakatha	130	60
2	Thilafushi	Villa Hakatha F n B	24	10
3	Thilafushi	Batch construction PVT LTD	15	1
4	Thilafushi	Wheel pvt ltd	10	25
5	Thilafushi	Mtcc	180	6
6	Thilafushi	IZ	no information provided	2
7	Thilafushi	Eve garment	no information provided	20
8	Thilafushi	Leo trading	47	10
9	Thilafushi	Sony hardware	200	60
10	Thilafushi	Lafarge Maldives	no information provided	2
11	Thilafushi	MALDIVE GAS	29	3
12	Thilafushi	WAMCO	150	25
13	Thilafushi	Mpl thilafushi	35	3
14	Thilafushi	Dhamas	no information provided	11
15	Thilafushi	Nalahiya trahiya trading pvt ltd	200	4
16	Thilafushi	Maldives Structural Product MSP	15	5
17	Thilafushi	Raajje logistics pvt ltd	33	5
18	Thilafushi	Leo Trade	33	25
19	Thilafushi	Sunfront	25	25
20	Thilafushi	Static company (aqua reef)	19	16
21	Thilafushi	The Hawks	120	36
22	Thilafushi	Metco	5	25
23	Thilafushi	Thilafalhu cafe	7	5
24	Thilafushi	Heavy Force	35	10
25	Thilafushi	Antrac (maldives petroleum	28	4
26	Thilafushi	Gulf craft	130	80
27	Thilafushi	Maldives police services	25	24
28	Thilafushi	Best dives pvt ltd	12	4
29	Thilafushi	Build Maldives Company	24	20
30	Gulheefalhu	Stelco	6	6
31	Gulheefalhu	GMIZ	35	10
32	Gulheefalhu	Litus	15	2
33	Thilafushi	Apollo	230	90
34	Thilafushi	GMIZ	155	60

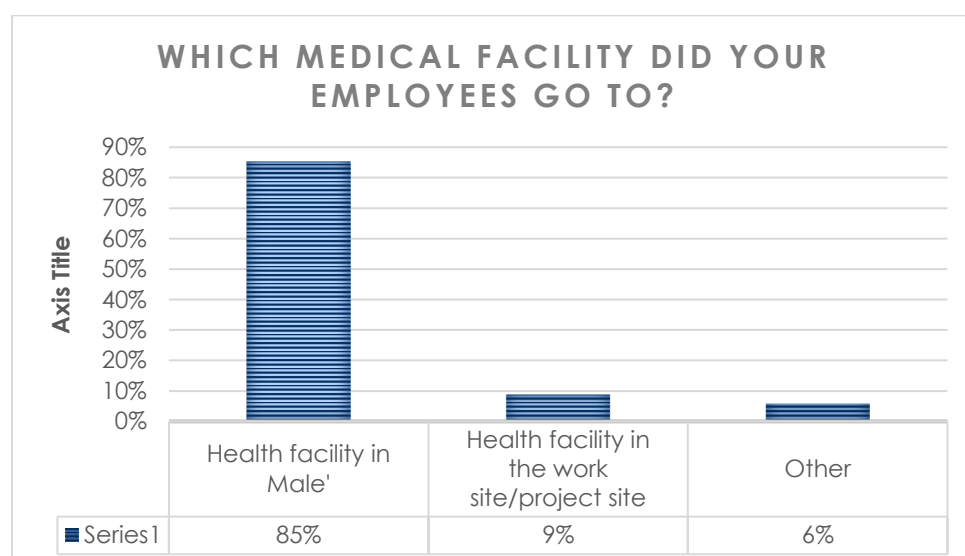
**A13. What kind of health issues did they have? (please provide a list if you have one)**



**A14. Did they visit a doctor?**



**A15. If yes to A14, Where did they go?**



**A16. What is the average annual cost for healthcare services for your employees? (in MVR)**

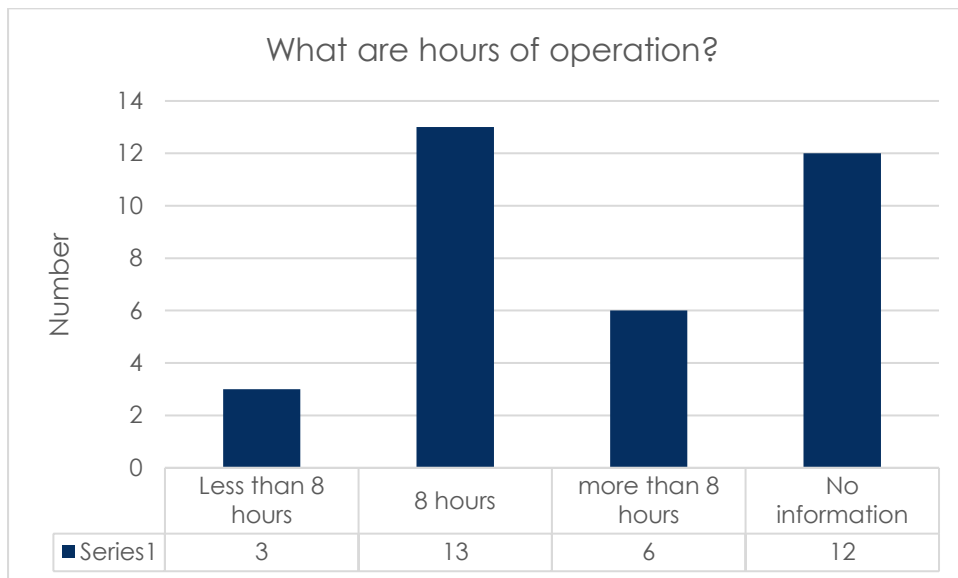
This information was provided by 8 companies.

	Island Name	Company Name	Annual cost for healthcare
1	Thilafushi	Wheel pvt ltd	45000
2	Thilafushi	Leo trading	300000 to 400000
3	Thilafushi	Sony hardware	400000
4	Thilafushi	MALDIVE GAS	66700
5	Thilafushi	Nalahiya trahiya trading pvt ltd	8400
6	Thilafushi	Maldives Structural Product MSP	8250
7	Thilafushi	Heavy Force	350000
8	Thilafushi	Antrac (maldives petroleum	28000 (company pays MVR1000 per person) employee pays MVR1000 (annually)

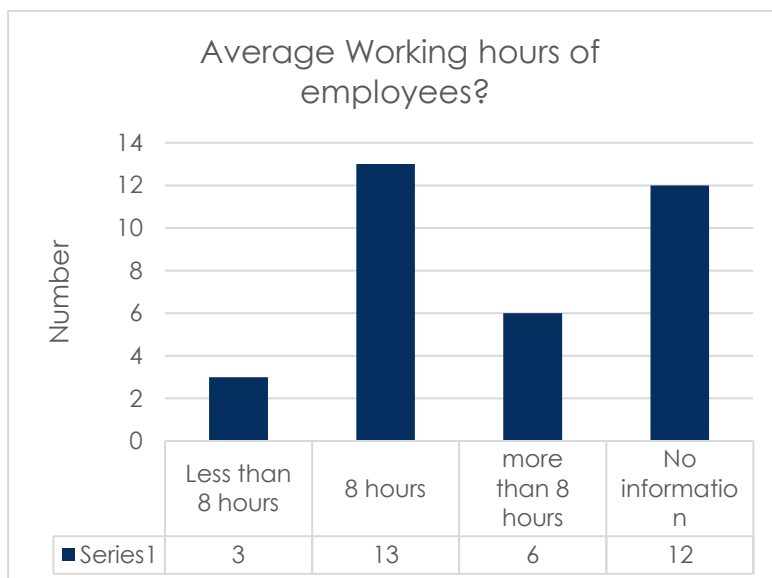
**A17. What are the range of salaries of your employees?**

None of the companies provided this information

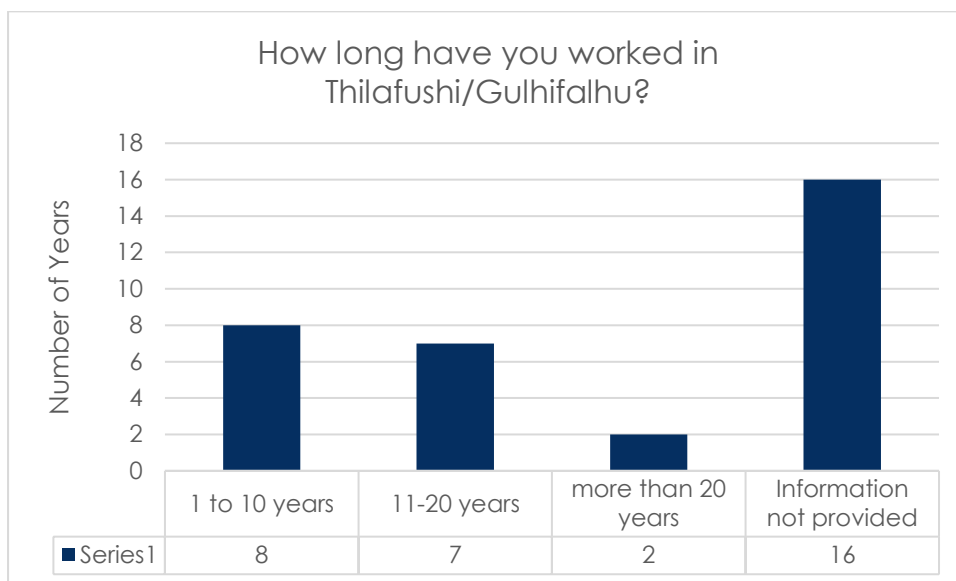
**A18. What are the hours of operation?**



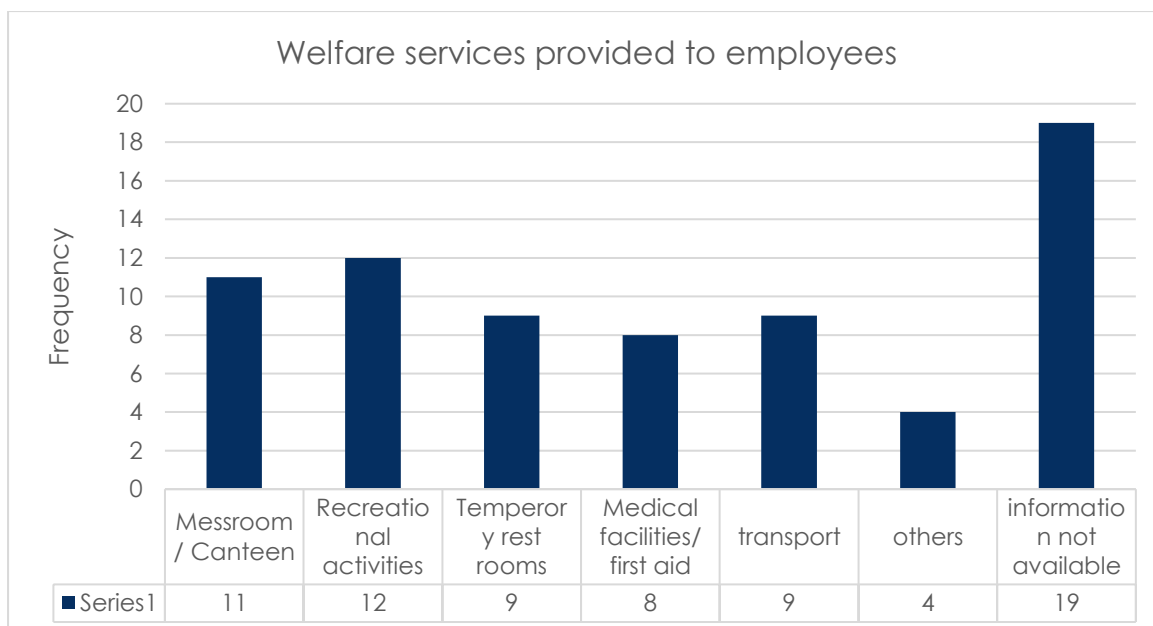
**A19. What are the average working hours of your employees?**



**A20. When did you start operations in Thilafushi/ Gulhifalhu?**



**A21. Specify the types of employee welfare facilities provided by your company**



**A22. Do you provide your employees with life insurance?**

None of the companies provide life insurance to their employees

**A23. Do you provide your employees with disability insurance?**

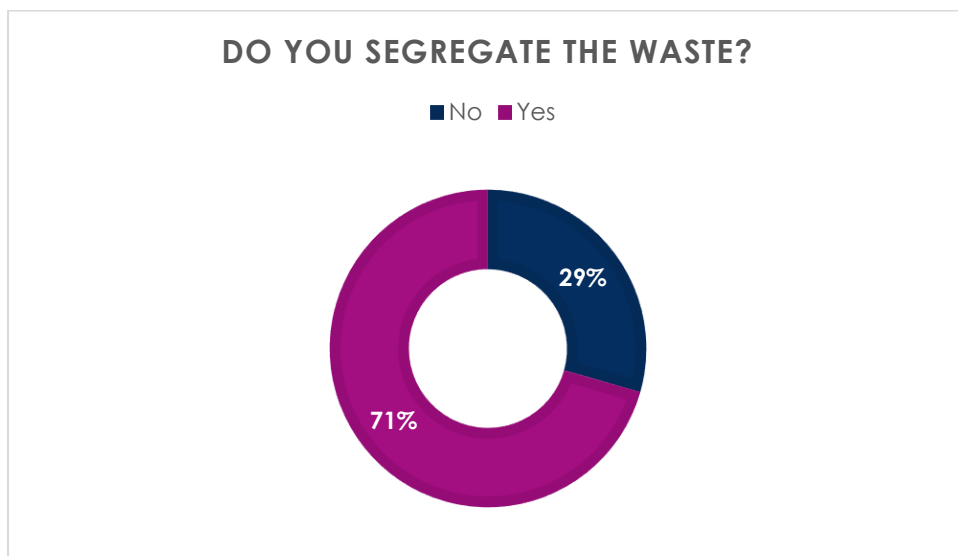
None of the companies provide disability insurance to their employees

**A24. What are the company's main assets? Can you provide details?**

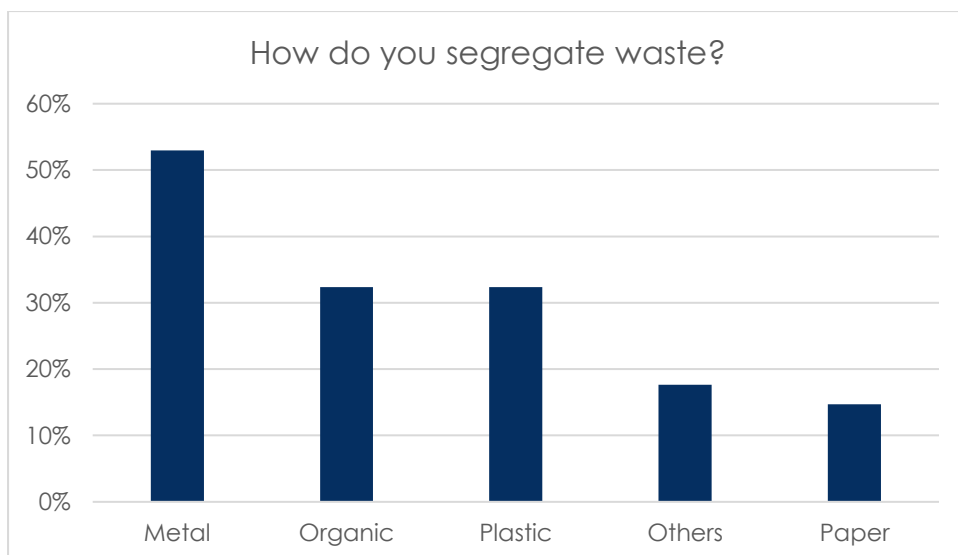
Only two companies provided details

## F. SOLID WASTE MANAGEMENT

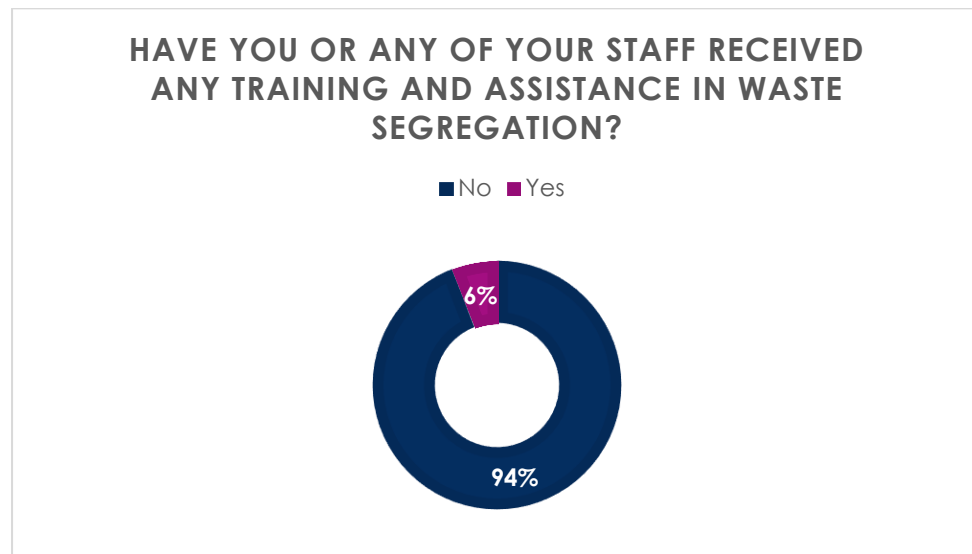
### B1. Do you segregate the waste?



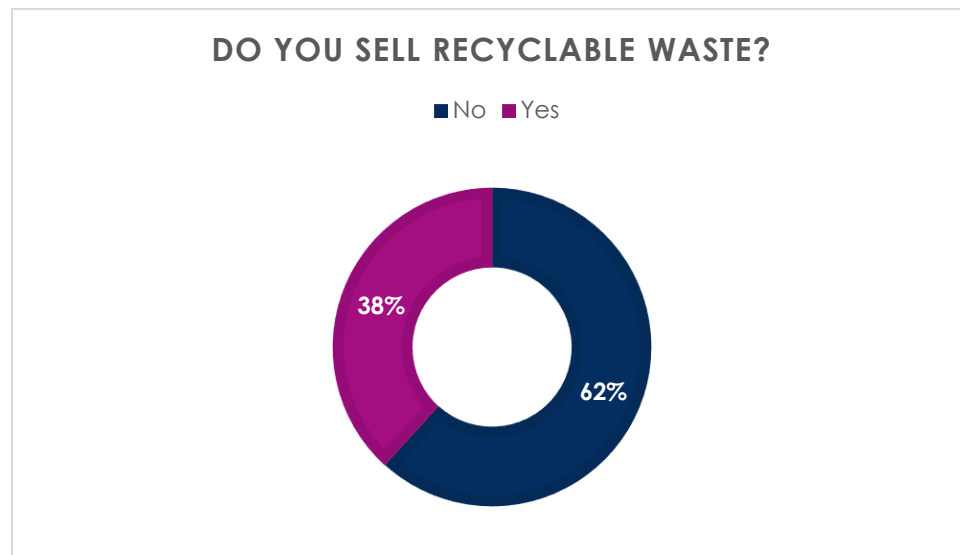
### B2 and B3 How do you segregate waste?



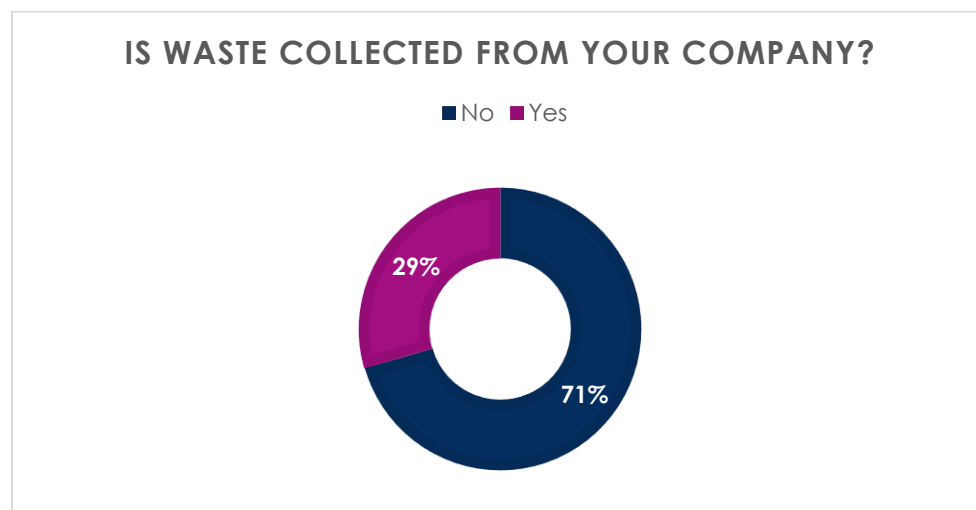
**B4. Have you received any training and assistance in waste segregation?**



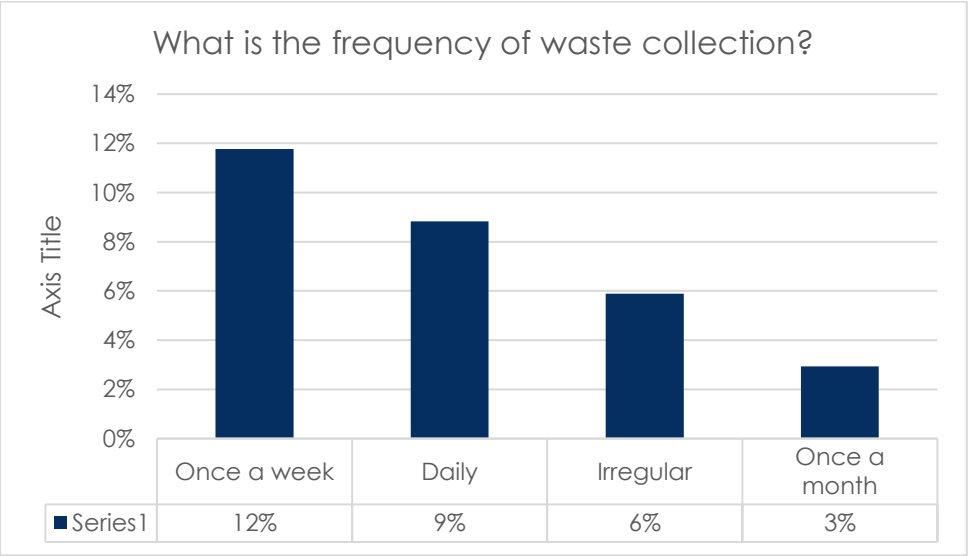
**B6. Do you sell recyclable waste?**



**B7. Is waste collection door to door/ from the company premises?**



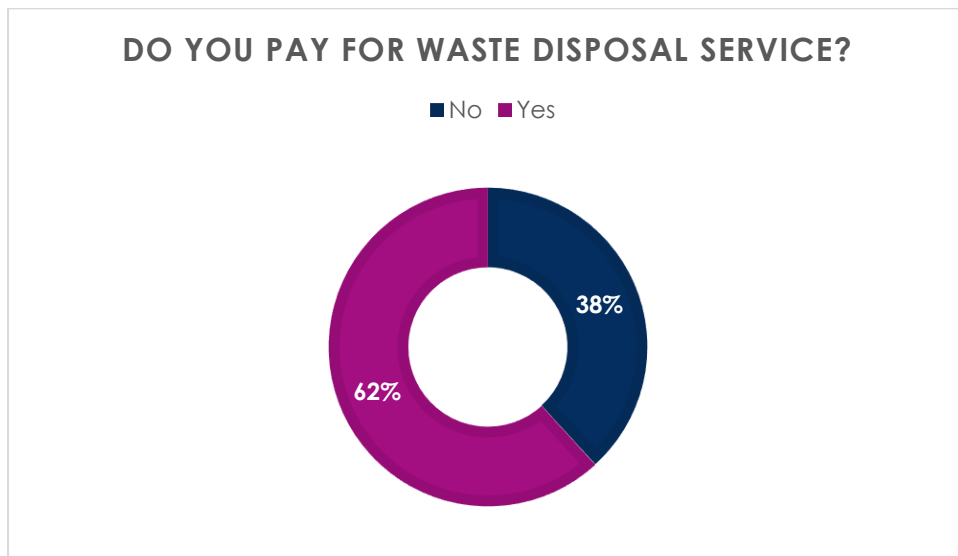
**B8. If yes to B7, what is the frequency of waste collection?**



**B9 and B10. Who is responsible for waste collection?**



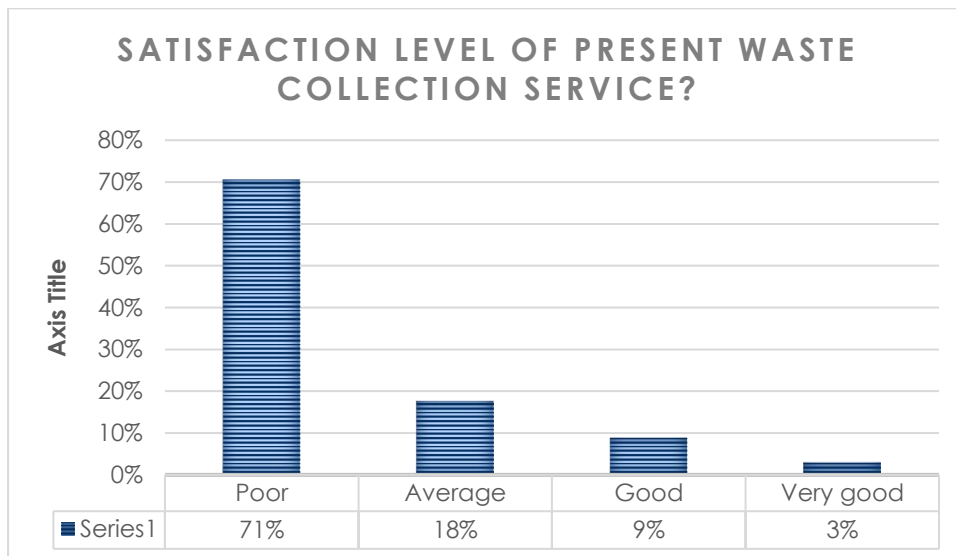
**B11. Do you pay for waste collection/ disposal service?**



**B12. How much do you pay for monthly waste collection (in MVR)**

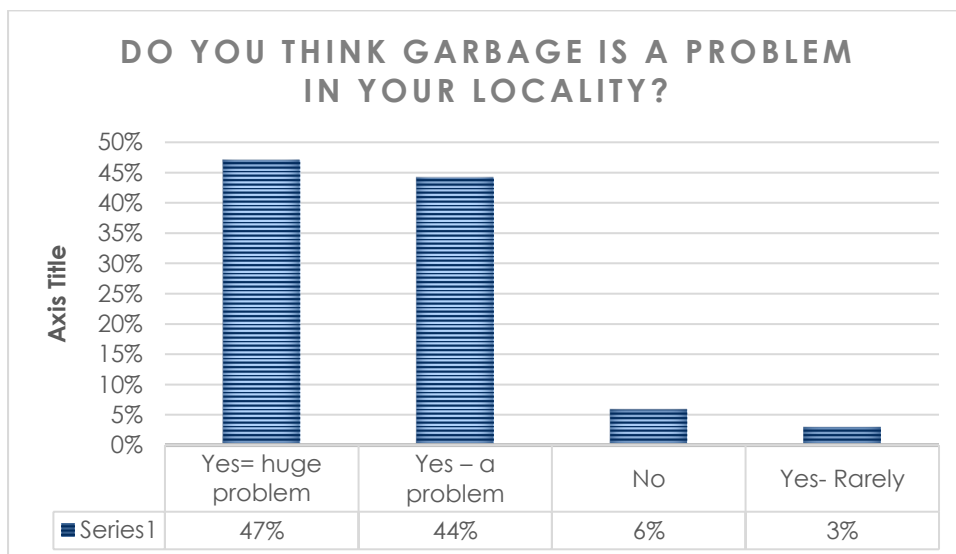
Amount in MVR	Sum of Count
(blank)	1
0-499	14
500-999	2
1000-1499	1
1500-1999	4
2000-2499	5
2500-2999	2
4000-4499	1
6000-6499	1
7000-7499	1
14000-14499	1
19000-19499	1
19500-20000	1
	35

**B13. Satisfaction level of present waste collection/ management service?**

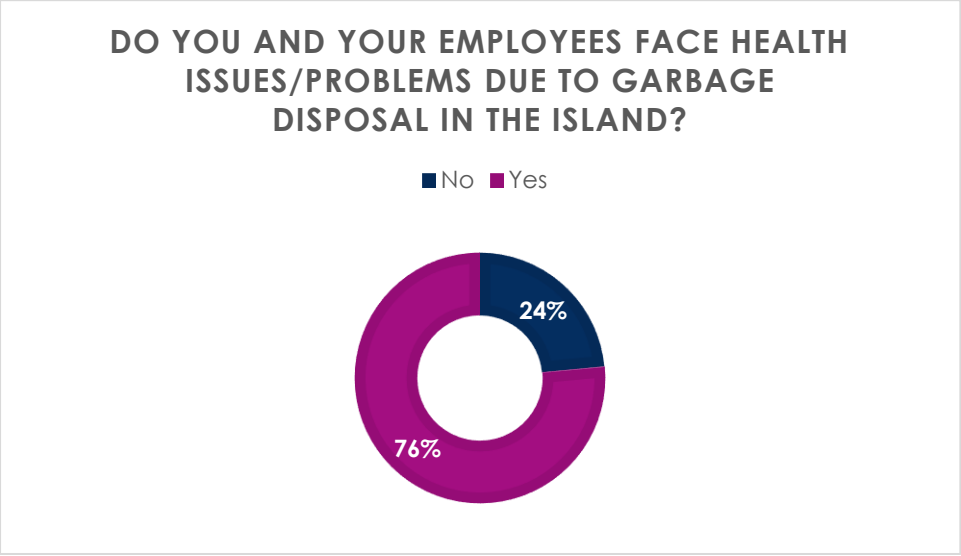


**B14. Do you feel the present monthly charge for waste collection is:**

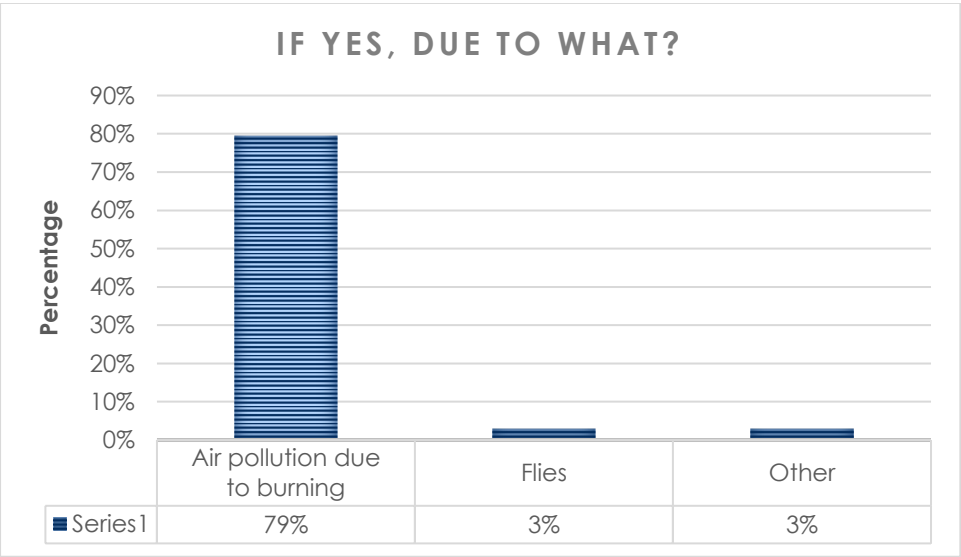
**B15. Do you think garbage is a problem in your locality?**



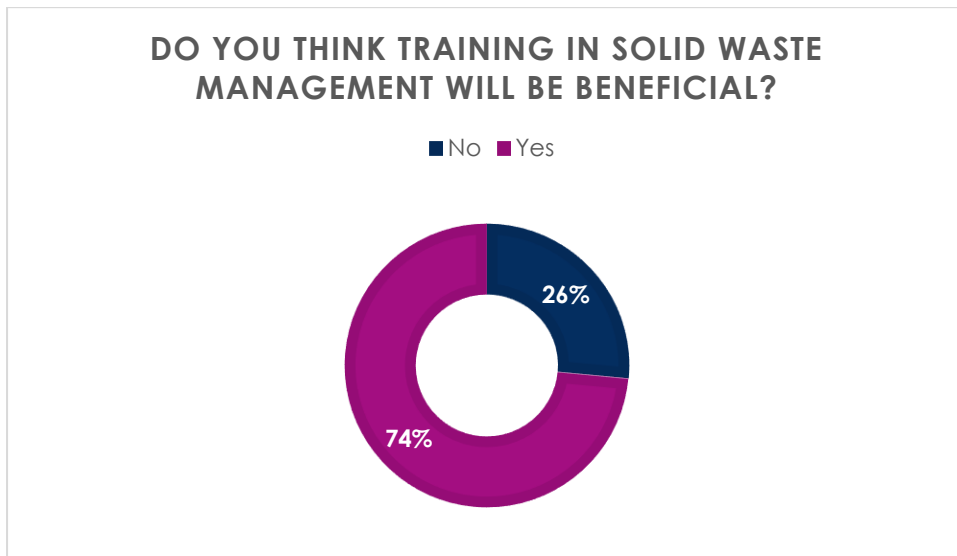
**B16 and B17. Do you and your employees face health problems/ issues due to the present practices of waste disposal in Thilafushi, including burning?**



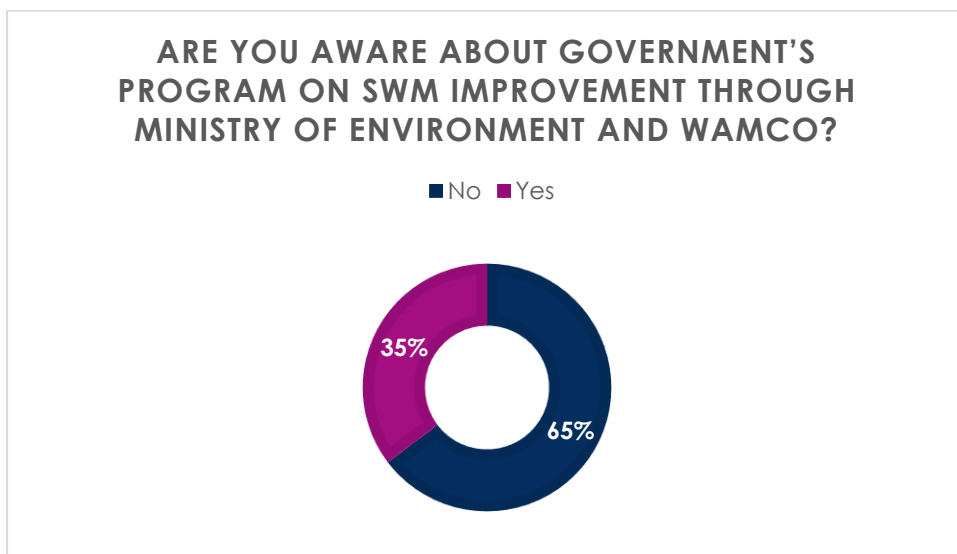
**If yes to B16, due to what?**



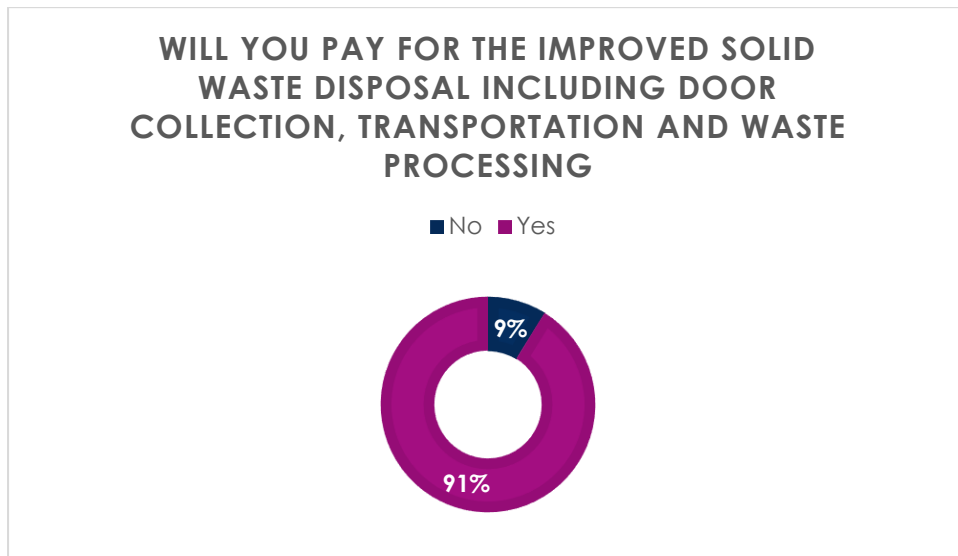
**B18. Do you think community level trainings in solid waste management will be beneficial?**



**B19. Are you aware about Government's program on SWM improvement through Ministry of environment and WAMCO?**



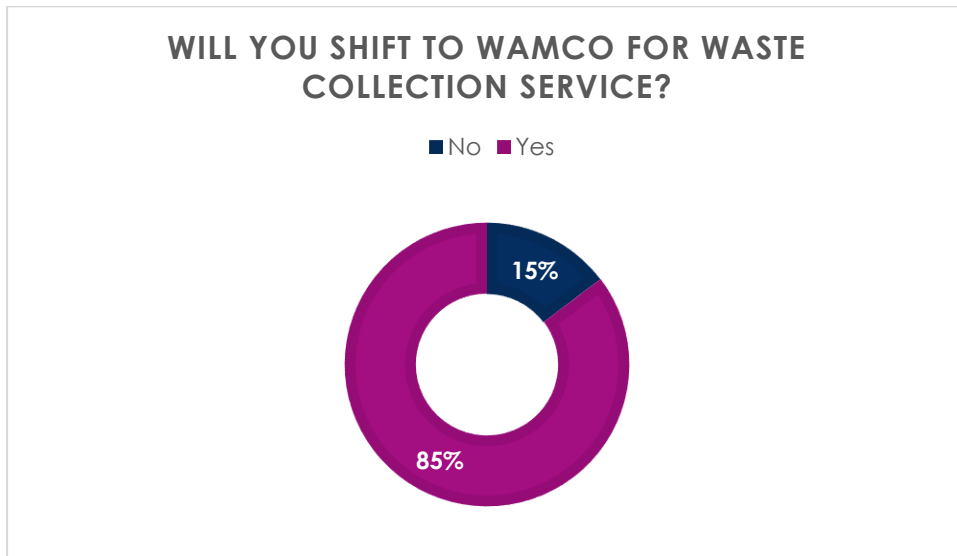
**B20. Will you pay for improved solid waste disposal including door collection, transportation and waste processing?**



**B21. If yes to B20, how much would you be willing to pay for improved waste collection and waste management services?**

Amount in MVR	Sum of Count
<0 or (blank)	19
0-499	3
500-999	3
1000-1499	4
1500-1999	1
2000-2499	2
5000-5499	2
39500-40000	1
<b>Grand Total</b>	<b>35</b>

**B22 and B23. Will you shift to WAMCO for waste collection service?**



**B24. What are the socio-economic problems face by your employees? Any other suggestions/ comments?**

	Island Name	Company Name	What are the socio-economic problems faced by your employees? Any other suggestions or comments?
1	Thilafushi	Villa Hakatha	No comments
2	Thilafushi	Villa Hakatha F n B	Conduct surveys annually to assess
3	Thilafushi	Batch construction PVT LTD	Health issues
4	Thilafushi	Wheel pvt ltd	No comments
5	Thilafushi	Mtcc	No comments
6	Thilafushi	IZ	No water and electricity
7	Thilafushi	Eve garment	No comments
8	Thilafushi	Leo trading	No comments
9	Thilafushi	Sony hardware	Yes. Food services are not so good, no regulations on road safety, parking
10	Thilafushi	Lafarge Maldives	No comments
11	Thilafushi	MALDIVE GAS	No comments
12	Thilafushi	WAMCO	No comments
13	Thilafushi	Mpl thilafushi	Heard about possible other issues. But no choice. Need to work here
14	Thilafushi	Dhamas	Infrastructure, roads, no lights at night. No security fo vehicles, parking space, abandoned vehicles, rule of law and order.
15	Thilafushi	Nalahiya trahiya trading pvt ltd	Healh services only recently established, road conditions
16	Thilafushi	Maldives Structural Product MSP	Ferry schedule regularly; taxi services; garbage per tonne of the lorry
17	Thilafushi	Raajje logistics pvt ltd	Waste disposal while transferring loads
18	Thilafushi	Leo Trade	Smoke I inhalation is their main problem, no proper sewage, poor road conditions during rainy season
19	Thilafushi	Sunfront	Waste disposal into the sea can be quite problematic as difficult for boats to come near the jetty for loading n unloading goods
20	Thilafushi	Static company (aqua reef)	Mainly smoke inhalation is their main concern
21	Thilafushi	The Hawks	Fighting;Illegal ppl; drinking; Banking problem; emergency ferry/boat system;;emergency med
22	Thilafushi	Metco	No comments
23	Thilafushi	Thilafalhu cafe	No comments
24	Thilafushi	Heavy Force	Smoke, roads, emergency transport
25	Thilafushi	Antrac (maldives petroleum	No electricity no water or sewage system at the present moment, the road conditions are bad, staff live in newly reclaimed land area and no electricity from main grid is not available, company provides generators and water is carried to site for staff to use. Smoke from burning waste is the main issue.
26	Thilafushi	Gulf craft	Waste gets washed from the ocean into our facility. Seasonal problems are there, during one season flies would be a hazard. During some days smoke is so thick the person standing next to you is not visible.
27	Thilafushi	Maldives police services	Nil
28	Thilafushi	Best dives ptv ltd	Nil
29	Thilafushi	Build Maldives Company	No infrastructure, road lights, road building not provided
30	Gulheefalhu	Stelco	Ferry timing a d the transportation is quite difficult
31	Gulheefalhu	GMIZ	Wamco to pick garbage twice monthly
32	Gulheefalhu	Litus	No comments
33	Thilafushi	Apollo	Waste management is a hazard! The governemnt should solve it as soon as possible
34	Thilafushi	GMIZ	Waste management is a hazard; WAMCO should not charge government for waste management as they have been allocated a plot of land; maybe a nominal fee; drug and prostitution was a problem but not that we have Police and they are patrolling 24/7 problems are minimised; should be given risk allowance for people working here