

Figure 4.1: Current Land Use of Kuala Nerus District (2018)

Source: IPlan, PLANMalaysia

Figure 4.1 above shows that Kuala Nerus been most developed at the east of the district compared to the west which still undeveloped and dominated by agricultural and forest land use. Coastal area along Kuala Nerus is mostly residential area, dominated by traditional housing occupied by the fisherman and others. Lapangan Terbang Sultan Mahmud is also located at the coastal area which provide air transportation for all people in Terengganu. Next to the Terengganu's airport, there is an army facilities with *Angkatan Pertahanan Awam Malaysia Negeri Terengganu* included inside it.

4.1.2 Land Use Zoning

By referring to the Kuala Terengganu Local Plan 2020, four type of land uses will be focused in Blok Perancangan Kecil 7.2: Seberang Takir as can be seen in **Figure 4.2** and **Table 4.1**. Along the coastline next to the Project site is a potential areas for chalet and boarding houses development and businesses.

Moreover, another proposal near the project site is the preservation of river reserve area. It is potential to develop as a recreational area and use as flood mitigation reservoir.

However, there is no reclamation and new township proposal in the future for Blok Perancangan Kecil Seberang Takir. Therefore, the proposed project is not in line with the local plan.

CADANGAN KELAS KEGUNAAN TANAH, 2020
BLOK PERANCANGAN 7 : KUALA NERUS

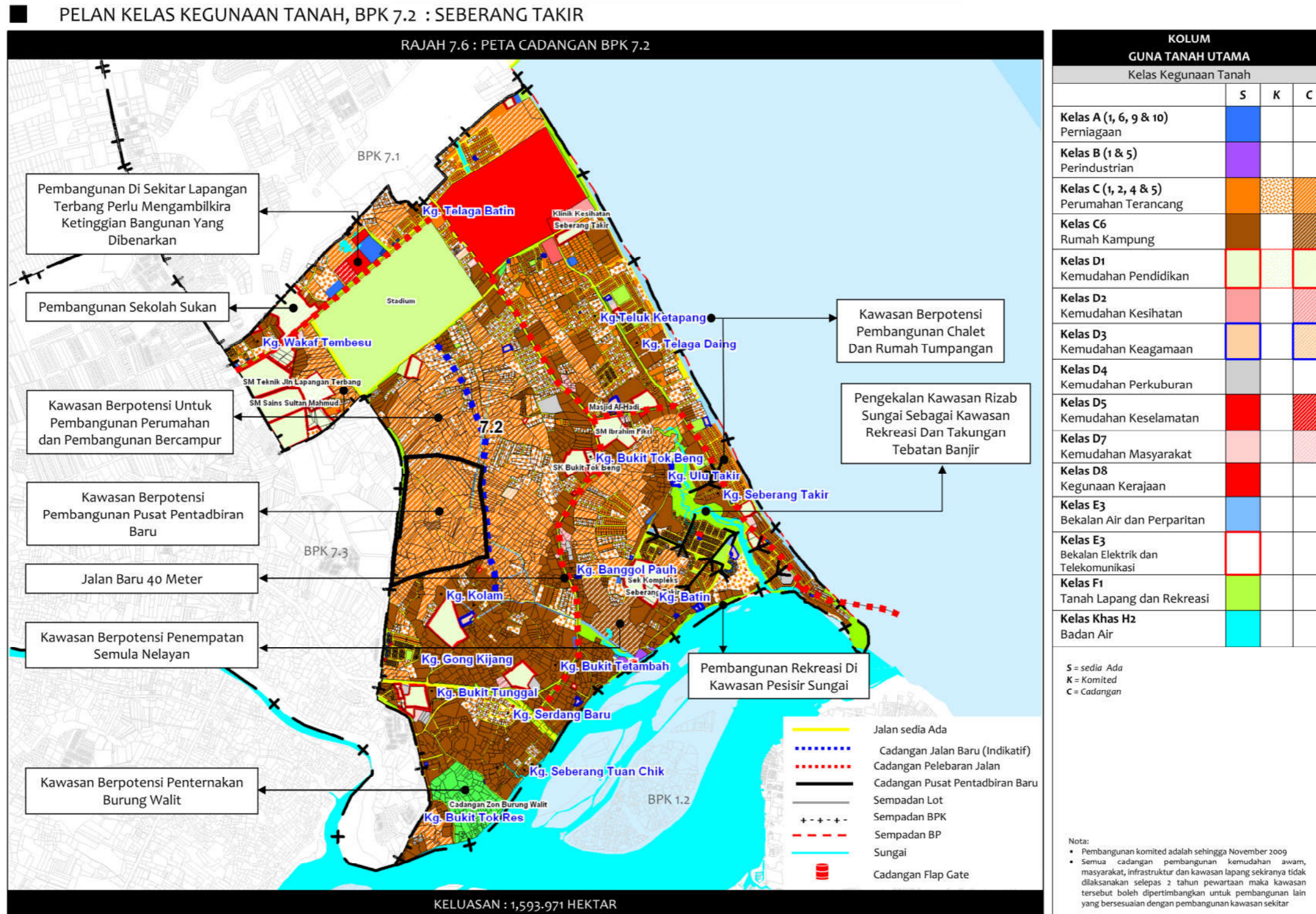


Figure 4.2: Proposed Land Use Zoning, 2020 for Blok Perancangan Kecil 7.2 Seberang Takir

Source: Kuala Terengganu Local Plan 2020

Table 4.1: Land Use Classification, BPK 7.2 (Seberang Takir)

CADANGAN KELAS KEGUNAAN TANAH, 2020
BLOK PERANCANGAN 7 : KUALA NERUS



JADUAL 7.4 : KELAS KEGUNAAN TANAH, BPK 7.2 (SEBERANG TAKIR)

KOLUM I Jenis Guna Tanah Utama	KOLUM II Guna Tanah Sokongan	KOLUM III Aktiviti Yang Dibenarkan		KOLUM IV Aktiviti Yang Dibenarkan Dengan Syarat		KOLUM V Aktiviti Yang Tidak Dibenarkan	Catatan
				Aktiviti	Syarat		
PERUMAHAN		C1 – Rumah Sesebuah	<ul style="list-style-type: none"> Rumah Setingkat Rumah Bertingkat 	<ul style="list-style-type: none"> Perniagaan Runcit Menjual dan Membaiki Sewaan Kedai Pejabat Perniagaan Perkhidmatan Khusus Restoran Kedai Kek dan Roti Lot Permainan Padang Kejiranan Kemudahan Masyarakat Bengkel membaiki bot dan jentera perikanan Chalet dan Rumah Tumpangan Industri Kotej Lain-lain aktiviti yang seragam dengan guna tanah perumahan 	<ul style="list-style-type: none"> Mengikut keperluan setempat dan perlu mengikut garis panduan/piawaian perancangan Aktiviti perniagaan dibenarkan di jalan-jalan utama di kawasan kediaman bagi lot-lot pertama yang dapat memenuhi syarat-syarat pembangunan perniagaan Aktiviti bengkel membaiki bot dan jentera perikanan hendaklah tidak mencemarkan alam sekitar Industri kotej dibenarkan di kawasan kampung 	<ul style="list-style-type: none"> Semua aktiviti yang tidak tersenarai dalam Kolum III dan IV 	<ul style="list-style-type: none"> Pembangunan premis perniagaan sementara di lot-lot yang dapat memenuhi syarat-syarat pembangunan perniagaan Aktiviti chalet dan rumah tumpangan dibenarkan di kawasan kediaman pesisir laut dan sungai
		C2 – Rumah Berkembar					
		C4 – Rumah Teres					
		C5 – Rumah Bertingkat	<ul style="list-style-type: none"> Rumah Pangsa Pangsapuri Kondominium 				
		C6 – Rumah Kampung	<ul style="list-style-type: none"> Rumah Kampung Terancang Rumah Kampung Tidak Terancang 				
	PERNIAGAAN	A1 – Perkedaian	<ul style="list-style-type: none"> Runcit 	<ul style="list-style-type: none"> Perniagaan Perkhidmatan Khusus Perniagaan Kegunaan Bercampur Gerai Kedai/Hotel Perindustrian Lain-lain aktiviti yang seragam dengan guna tanah Perniagaan Pembangunan perniagaan sementara dibenarkan 	<ul style="list-style-type: none"> Mengikut keperluan setempat dan perlu mengikut garis panduan/piawaian perancangan Memenuhi syarat-syarat pembangunan perniagaan 	<ul style="list-style-type: none"> Semua aktiviti yang tidak tersenarai dalam Kolum III dan IV Aktiviti membaiki dan servis kenderaan di stesen minyak 	<ul style="list-style-type: none"> Pembangunan premis perniagaan sementara di lot-lot yang dapat memenuhi syarat-syarat pembangunan perniagaan Aktiviti chalet dan rumah tumpangan dibenarkan di kawasan kediaman pesisir laut dan sungai
		A6 – Pusat Kewangan	<ul style="list-style-type: none"> Perbankan 				
		A9 – Pusat Makanan	<ul style="list-style-type: none"> Restoran Medan Selera Kedai Kopi Kafeteria Kafe Terbuka Lain-lain pusat makanan 				
		A10 – Stesen Minyak	<ul style="list-style-type: none"> Stesen 				
	INSTITUSI AWAM	D1 – Pendidikan	<ul style="list-style-type: none"> Sekolah Rendah 	<ul style="list-style-type: none"> Lain-lain aktiviti yang berkaitan/seragam dengan institusi awam 	<ul style="list-style-type: none"> Mengikut keperluan setempat dan perlu mengikut garis panduan/piawaian perancangan 	<ul style="list-style-type: none"> Semua aktiviti yang tidak tersenarai dalam Kolum III dan IV 	
		D2 – Kesihatan	<ul style="list-style-type: none"> Klinik Desa 				
		D3 – Keagamaan	<ul style="list-style-type: none"> Masjid 				
		D5 – Keselamatan	<ul style="list-style-type: none"> Balai Polis Lain-lain kemudahan 				
		D7 – Kemudahan Masyarakat	<ul style="list-style-type: none"> Dewan Serbaguna Balai raya Perpustakaan Desa Lain-lain kemudahan 				
	PENTERNAKAN	G2 – Pertanian Komersil	<ul style="list-style-type: none"> Pertanian dan Penternakan 	<ul style="list-style-type: none"> Penternakan burung walit Lain-lain aktiviti yang seragam dengan guna tanah pertanian 	<ul style="list-style-type: none"> Mengikut keperluan setempat dan perlu mengikut garis panduan/piawaian perancangan Aktiviti penternakan burung walit di benarkan di kawasan pertanian sekiranya dapat memenuhi syarat dan garis panduan/piawaian yang telah ditetapkan 	<ul style="list-style-type: none"> Semua aktiviti yang tidak tersenarai dalam Kolum III dan IV 	<ul style="list-style-type: none"> Aktiviti penternakan burung walit, ayam, kambing dan lembu di benarkan di kawasan pertanian sekiranya dapat memenuhi garis panduan / piawaian yang ditetapkan

4.1.3 Public and Essential Facilities and Zoning

A good amenities and community facilities are the factors that encourage people to live in a certain area. Amenities that need to provided such as electric and water supply, telephone cable, road, sanitary and drainage system. Based on the field study that have been done, people who live in the villages around the project area are receiving adequate amenities and living in comfort. All the houses received electrical supply from Tenaga Nasional Berhad (TNB) and water supply provided by Syarikat Air Terengganu (SATU). The other amenities such as drainage and road maintenance are take care by the authority.

Table 4.2 shows the availability of public amenities in the study area while **Table 4.3** shows some of the facilities available exactly within the study area.

Table 4.2: Public Amenities at the Study Area

Infrastructures	Availability
Electric Supply (TNB)	Yes
Water Supply	Yes
Garbage Transportation Services	Yes
Telephone	Yes
Road system	Yes
Drainage system	Yes

Source: Field data March 2018.

Table 4.3: The Community Facilities Available surrounding the Proposed Project Site

Community Facilities Available at the Surrounding Seberang Takir	
<ul style="list-style-type: none"> • Hospital Sultanah Nur Zahirah • Kuala Terengganu Specialist Hospital • Sekolah Kebangsaan Gong Kapas • Hospital Pakar Kuala Terengganu • SMK Agama Sheikh Abdul Malik • Kelab Golf Diraja Terengganu • Muzium Negeri Terengganu 	<ul style="list-style-type: none"> • Masjid Kristal • Sekolah Kebangsaan Ladang • Wisma Darul Iman • Pejabat RISDA Kuala Terengganu • Lembaga Tabung Haji • Balai Bomba dan Penyelamat Kuala Terengganu • Sekolah Kebangsaan Paya Bunga

Source: Field data March 2018.

Table 4.4 shows the community facilities available surrounding the study area. Being located at the outskirts of the main city centre, the study area is quite convenient and equipped with essential amenities.

The public facilities within 5km from the Project site can be referred in **Figure 4.3** and **Figure 4.4**. The nearest school from the Project site is SK Teluk Ketapang. Two universities are located in Kuala Nerus district, which are *Universiti Sultan Zainal Abidin (UniSZA)* and *Universiti Malaysia Terengganu (UMT)*. Kuala Terengganu Public Library is the only public library that can be identified in the study area.

Only three fire and rescue station located within 5km radius from the Project site, which are Jalan Kota Fire and Rescue Station, Kuala Nerus Fire and Rescue Station and Kuala Terengganu Fire and Rescue Station. According to the Planning Guidelines from PLANMalaysia, those fire and rescue station can be classified as Fire Station Category A, as they are provided at the main town and state capital.

Table 4.4 Social Facilities within 5 Kilometer Radius

Social Facilities	Availability
Schools	Yes
Mosque/Surau	Yes
Religious Centers	Yes
Sports & Recreational Facilities	Yes
Public Hall	Yes
Clinic/ Hospital	Yes
Public Library	Yes

Source: Field data March 2018.



Figure 4.3: Education Facilities within 5km Radius from Project Site



Figure 4.4: Health and Safety Facilities within 5km Radius from Project Site

4.2 POPULATION

4.2.1 General Population Growth and Distribution in Terengganu

Malaysia has a total population of 28.33 million in 2010 Census, with an average growth rate of 2% per annum. Terengganu has 1.035 million people by the year 2010. The ethnic composition of Terengganu consists of Malay, Chinese, Indian and others. **Table 4.5** shows the total population by ethnic group in Terengganu.

Table 4.5: Total Population according to Ethnic Group and Citizenship in Terengganu, 2010

Total Population by Ethnic Group in Terengganu			
Malaysian Citizens	Bumiputera	Malay	985,011
		Other Bumiputera	1,991
	Chinese	26,429	
	Indian	2,397	
	Others	1,382	
Non-Malaysian Citizens			18,767
Total			1,035,977

Source: Department of Statistic Malaysia, 2010

4.2.2 Population Distribution by District in Terengganu

Table 4.6 provides the population for every districts in Terengganu. Population for Kuala Nerus District, where the Project is located is included in Kuala Terengganu District has a total population of 343,284 people according to 2010 Census. Kuala Terengganu is the largest populated district in Terengganu.

Table 4.6: Total Population Distribution by Districts in Terengganu (2010)

District	Population	Percentage (%)
Besut	140,952	13.6
Dungun	154,932	15.0
Hulu Terengganu	72,052	7.0
Kemaman	171,383	16.5
Kuala Terengganu (including Kuala Nerus)	343,284	33.1
Marang	97,857	9.4
Setiu	55,517	5.4
Terengganu	1,035,977	100.0

Source: Department of Statistic Malaysia, 2010

Table 4.7 shows the population of Kuala Terengganu district by ethnic groups. By referring to the table below, the majority ethnic in Terengganu is Malay with 94.7% and followed by Chinese with 3.5%.

Table 4.7: Total Population Distribution according to Ethnicity by Districts in Terengganu (2010)

Citizens	Ethnicity		Population	Percentage (%)
Malaysian Citizens	Bumiputera	Malay	325,145	94.7
		Other Bumiputera	660	0.2
	Chinese	11,851	3.5	
	Indian	886	0.3	
	Others	294	0.1	
Non-Malaysian Citizens			4,448	1.3
Kuala Terengganu			343,284	100.0

Source: Department of Statistic Malaysia, 2010

4.2.3 Population Distribution by Mukims in Kuala Terengganu District

The population distribution by mukims of Kuala Terengganu District is shown in **Table 4.8**. Kuala Nerus, which before known as one of Kuala Terengganu's mukim has the highest population among the mukims at 83,793 people in 2010.

The 5-km ZOI of the Project covers Mukim Bandar Kuala Terengganu, Batu Buruk, Batu Rakit, Manir, Bukit Besar, Cabang Tiga, Losong and Kuala Nerus. The total population of these mukims is 222,293 people.

Table 4.8: Total Population Distribution by Mukims in Kuala Terengganu District (2010)

Mukims	Population	Percentage (%)
Atas Tol	2,900	0.8
Bandar Kuala Terengganu	12,279	3.6
Batu Buruk	13,852	4.0
Batu Rakit	37,163	10.8
Belara	17,648	5.1
Bukit Besar	22,929	6.7
Cabang Tiga	14,448	4.2
Cenering	13,811	4.0
Gelugur Kedai	6,605	1.9
Gelugur Raja	2,083	0.6
Kepung	7,131	2.1
Kuala Ibai	13,316	3.9

Mukims	Population	Percentage (%)
Kuala Nerus	83,793	24.4
Kubang Parit	7,379	2.1
Losong	9,401	2.7
Manir	28,428	8.3
Paluh	8,787	2.6
Pengadang Buluh	14,263	4.2
Pulau-Pulau	3,945	1.1
Pulau Redang	2,013	0.6
Rengas	3,009	0.9
Serada	7,177	2.1
Tok Jamal	5,193	1.5
Kuala Terengganu	343,284	100.0

Source: Department of Statistic Malaysia, 2010

4.2.4 General Population Profiles

4.2.4.1 Mukims by Ethnic Group

The ethnicity in related Mukims can be referred in **Table 4.9**. Bumiputera as the highest ethnic group with 94.08%, then followed by Chinese (4.31%) and Non-Citizens (1.18%).

Table 4.9: Population Distribution by Ethnic Group in related Mukims (2010)

Mukim	Citizens								Non-Citizens	
	Bumiputera		Chinese		Indian		Others		No.	%
	No.	%	No.	%	No.	%	No.	%		
Kuala Terengganu	7,415	3.34	4,242	1.91	172	0.08	41	0.02	409	0.18
Batu Buruk	13,011	5.85	361	0.16	137	0.06	18	0.01	325	0.15
Batu Rakit	36,441	16.39	172	0.08	131	0.06	8	0.00	411	0.18
Bukit Besar	21,924	9.86	611	0.27	39	0.02	19	0.01	336	0.15
Cabang Tiga	12,862	5.79	1,337	0.60	62	0.03	24	0.01	163	0.07
Kuala Nerus	80,789	36.34	1,931	0.87	208	0.09	58	0.03	807	0.36
Losong	9,195	4.14	109	0.05	9	0.00	1	0.00	87	0.04
Manir	27,491	12.37	814	0.37	20	0.01	7	0.00	96	0.04
Total	209,128	94.08	9,577	4.31	778	0.35	176	0.08	2,634	1.18
Grand Total	222,293 People									

Source: Department of Statistic Malaysia, 2010

4.2.4.2 Mukims by Gender, Age Group

According to the **Table 4.10**, female has higher percentage with 50.5% compared to male with 49.5% in the eight mukims. Kuala Nerus has the highest for both gender, which male is 18.1% while female is 19.6%. From **Table 4.11**, Kuala Nerus also has the highest percentage for all three age group, which 0-14 years (11.1%), 15-64 years (25.1%) and higher than 65 years (1.4%).

Table 4.10: Population Distribution by Gender in related Mukims (2010)

Mukim	Number of Household	Gender			
		Male		Female	
		No.	%	No.	%
Kuala Terengganu	3,356	5,775	2.6	6,504	2.9
Batu Buruk	3,170	6,652	3.0	7,200	3.2
Batu Rakit	7,565	19,248	8.7	17,915	8.1
Bukit Besar	5,100	11,505	5.2	11,424	5.1
Cabang Tiga	3,308	7,313	3.3	7,135	3.2
Kuala Nerus	15,665	40,324	18.1	43,469	19.6
Losong	1,999	4,601	2.1	4,800	2.2
Manir	5,872	14,521	6.5	13,907	6.3
Total	46,035	109,939	49.5	112,354	50.5
GRAND TOTAL		222,293 People			

Source: Department of Statistic Malaysia, 2010

Table 4.11: Population Distribution by Age Group in related Mukims (2010)

Mukim	Total Population	Age Group					
		0 – 14 years		15 - 64 years		65 years >	
		No.	%	No.	%	No.	%
Kuala Terengganu	12,279	2,451	1.1	8,811	4.0	1,017	0.5
Batu Buruk	13,852	3,882	1.7	9,149	4.1	821	0.4
Batu Rakit	37,163	11,588	5.2	23,803	10.7	1,772	0.8
Bukit Besar	22,929	6,787	3.1	14,734	6.6	1,408	0.6
Cabang Tiga	14,448	4,164	1.9	9,394	4.2	890	0.4
Kuala Nerus	83,793	24,752	11.1	55,886	25.1	3,155	1.4
Losong	9,401	2,781	1.3	5,994	2.7	626	0.3
Manir	28,428	8,710	3.9	17,993	8.1	1,725	0.8
Total	222,293	65,115	29.3	145,764	65.6	11,414	5.1
GRAND TOTAL		222,293 People					

Source: Department of Statistic Malaysia, 2010

4.3 SOCIO-ECONOMIC PROFILE

A household survey was done involving a total of 343 respondents from 45 settlements inside the influence area (ZOI). The area were divided into 5 area zones, which were around radius of 1 km apart from each zone starting from the boundary of the proposed site area. The respondent gathered are from the community living inside the ZOI area, including fishermen community.

Table 4.12 shows the summary of the gathered sample from the settlements according to its ZOI.

Table 4.12: Summary of Samples Respondent according to ZOI

Settlements (including respondent from fishermen community)		Sample Gathered	Targeted Sample	% from targeted sample
0-1KM				
1	Taman Permint Perdana	109	117	93%
2	Kampung Telaga Daing			
3	Kampung Baru Seberang Takir			
4	Kampung Ulu Takir			
5	Kampung Ketapang			
1-2KM				
6	Kampung Nesan Empat	92	76	121%
7	Kampung Tanjung Paya			
8	Kampung Ladang			
9	Kampung Tiong			
10	Kampung Tok Jembal			
11	Kampung Tanjung Kapur			
12	Kampung Banggul Pauh			
13	Kampung Banggul			
14	Kampung Bukit Tok Beng			
15	Kampung Batin			
16	Kampung Ladang Sekolah			
17	Kampung Telaga Batin			
19	Kampung Batas Baru			
20	Taman Murni Permai			
2-3KM				
18	Batu Buruk	17	16	106%
3-4KM				
21	Kampung Mengabang Tengah			
22	Kampung Wakaf Baru			
23	Kampung Kijang			
24	Kampung Losong Haji Long			

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Settlements (including respondent from fishermen community)		Sample Gathered	Targeted Sample	% from targeted sample
25	Kampung Losong	83	85	98%
26	Kampung Kubang Badak			
27	Kampung Jati Gong Badak			
28	Kampung Batu Burok			
29	Kampung Pantai Batu Burok			
30	Kampung Pengkalan Batu			
31	Kampung Tanjung Bunut			
4-5KM				
32	Kampung Bukit Datu	36	92	39%
33	Kg Losong Haji Awang			
34	Kampung Kubur Kecil			
35	Kg Losong Panglima Perang			
36	Kg Losong Hj Mat Shafie			
37	Kampung Gong Gemia			
38	Kg Losong Atap Zin			
39	Kampung Nibung			
40	Kampung Seberang Baruh			
41	Kg Banggol Tok Jiring			
42	Kampung Tok Ku			
43	Kg. Makam Lama			
44	Kg. Tuan Mandan			
45	Kg. Gong Datuk			
Total Sample		343		

Source: Social Survey, 2019.

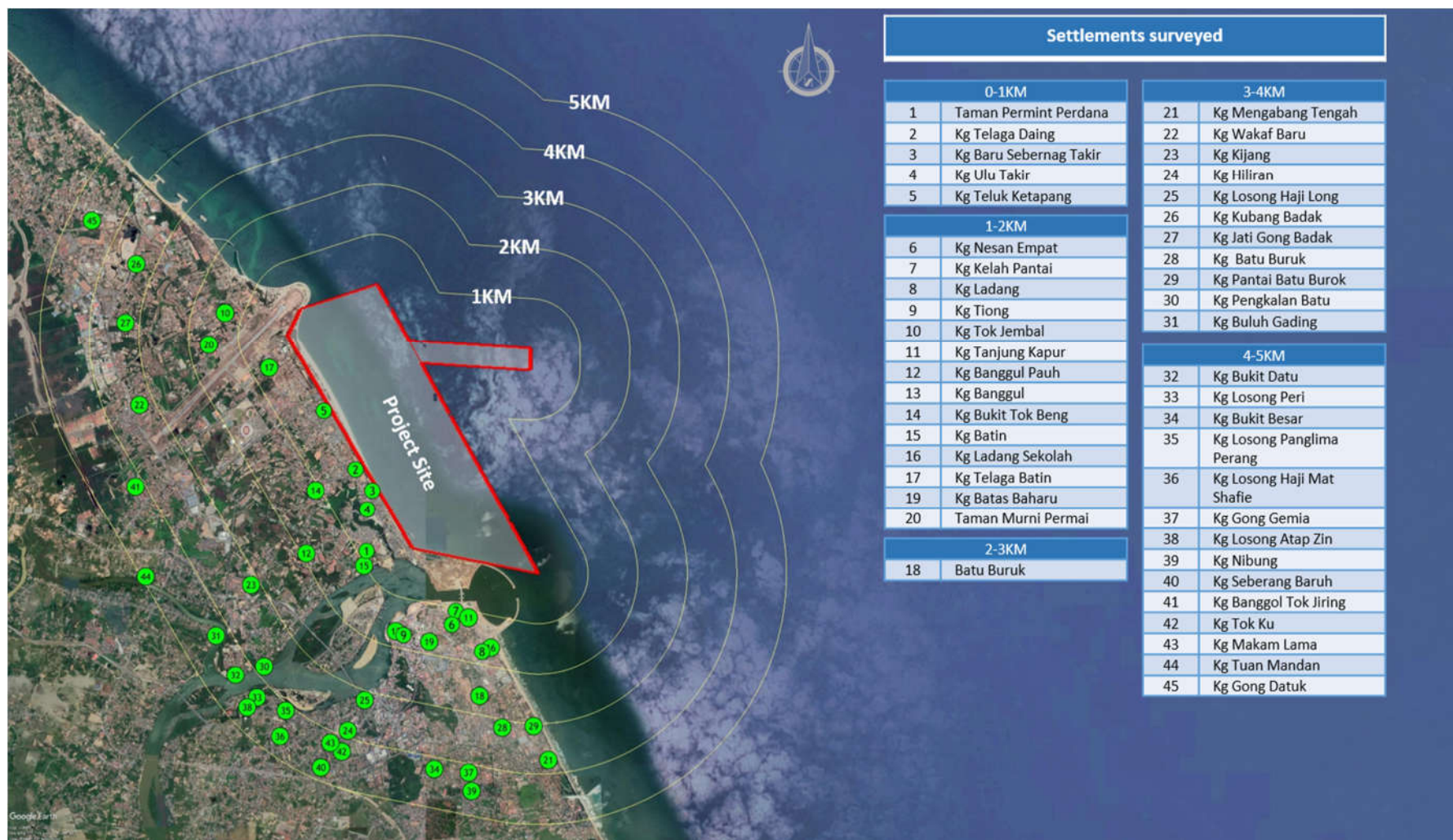


Figure 4.5: Location of Samples Respondent according to ZOI

4.3.1 PROFILE DEMOGRAPHY

According to the questionnaire, the respondents were mostly Malays, which consisted of 286 (83.4%) respondents, followed by Chinese with 34 (9.9%) respondents. The least respondent recorded from the survey was Indian which 23 (6.7%) respondents is. As shown in **Table 4.13**, the ethnicity composition of respondent reflecting the dominant race population in Terengganu itself.

Table 4.13: Ethnicity and Gender of Respondents

Ethnicity	GENDER			
	Male	Female	Total	
	No. Respondent	No. Respondent	No. Respondent	%
Malay	197	89	286	83.4
Chinese	28	6	34	9.9
Indian	16	7	23	6.7
Total	241	102	343	100

Source: Social Survey, 2019.

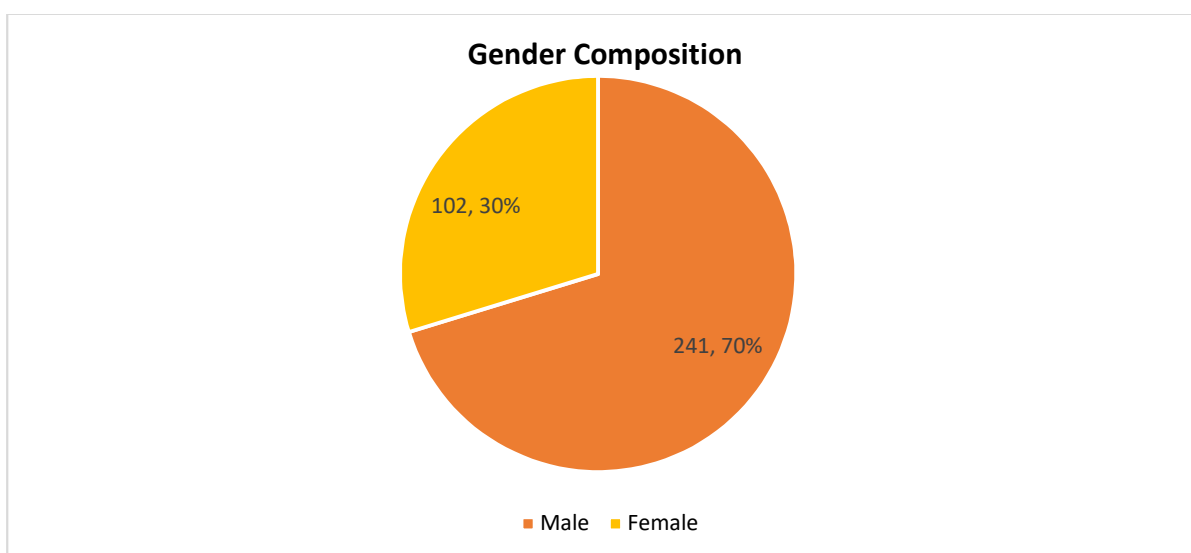


Figure 4.6: Percentage of Respondent by Gender

Source: Social Survey, 2019.

Out of all respondent surveyed 241(70%) are male and the rest of 102 respondents (30%) are females. This significant gap is due to the focus of this questionnaire that emphasizes on fishermen community which is dominantly occupied by male gender.

4.3.2 Age

The age distribution of all respondent was capped starting from 18 to above 60. This was to ensure that the respondent are fully understand the project intentions and have mature outlook and perspective towards the impact that might come to. Overall distribution of age

of respondents in the study area shows that the dominant age group is between 41-50 years. It made up of 32% of total respondent. The lowest is from the age group of 51-60 years old, which encompasses of 42 respondent (12%) of total respondent. (Refer **Figure 4.7**).

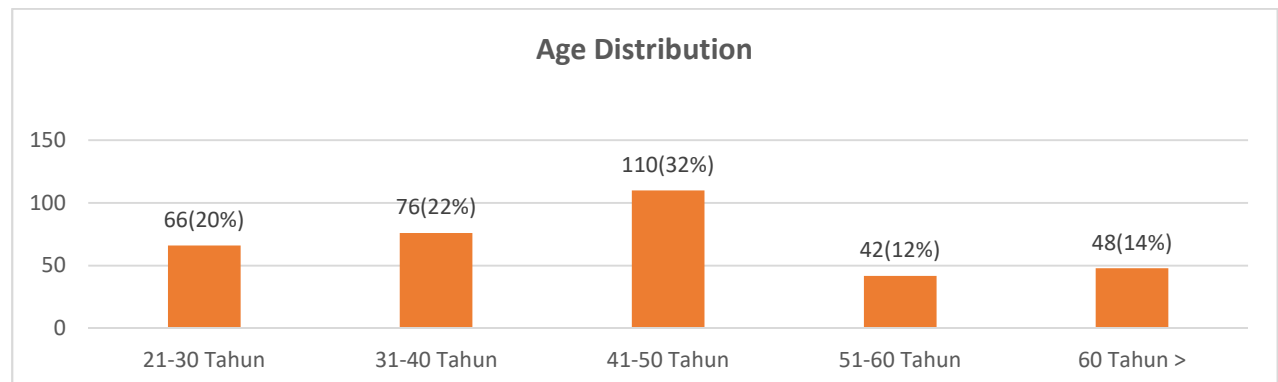


Figure 4.7: Age Group

Source: Social Survey, 2019

4.3.3 Education Level

Education is critical to social and economic development and has a profound impact on population development. In this sector the category was divided into 8 categories representing educational level in Malaysia (refer **Table 4.14**). Based on the data retrieved from the social survey, the highest educational attainment for respondents were in SPM Level (135 respondents or 39.8%). Followed with the respondents who studied until Primary School which takes up to 88 respondents (22.2%). Out all of the respondents, 5 respondents (1.5%) admit to have no formal education. Above all, majority of the respondents received basic education based on the high margin between no educations and lowest education received (primary school).

Table 4.14: Respondents' Education Level

Education Level	No. Respondent	Percentage (%)
No Education	5	1.5
Primary School	88	26
PMR/LCE	65	19.2
SPM/SPMV/MCE	135	39.8
STP/STPM/HSC	3	0.9
Diploma	26	7.7
Degree	15	4.4
Lain-lain	2	0.6
Total	339	100.0

Source: Social Survey, 2019.

4.3.4 Marital Status

Based from the data attained from the survey and tabulated **Table 4.15**, it has been identified that 257(74.9%) of the respondents were married. It puts the married category as dominant status of marital among respondents. The percentage of the single respondent comes second in which 75(21.9%) of respondent belongs in this category. Other than that, there's only about 3.21% out of total respondent are divorcee.

Table 4.15: Respondents' Marital Status

Marital Status	No. Respondent	%
Single	75	21.9
Married	257	74.9
Divorcee	11	3.21
Total	343	100

Source: Social Survey, 2019.

4.3.5 Occupation

Table 4.16 shows the type of work for the whole respondent. For the employment sector, a total of 75 respondents (21.9%) stated their type of employment as Business Owners, ranging from food stall and tourism product (keropok lekor Losong). The second highest job employment is private sector worker where there are total of 73 respondents (21.3%) belong in the category.

Table 4.16: Respondents' Occupation

Occupation	No. Respondent	Percentage (%)
Unemployed	39	11.4
Farmers	10	2.9
Public sector	35	10.2
Private Sectors	73	21.3
Business Owners	75	21.9
Retiree	26	7.6
Fisherman	64	18.7
Others	21	6.1
Total	343	100

Source: Social Survey, 2019.

Fishermen is the third highest job of the respondents where a total of 64 respondent (18.7%) belongs in this category. The number of unemployed respondent was also recorded. There are about 39 respondent that is not working, 11.4% of the total respondent. 21 respondent (6.1%) of total respondent belongs to others as they admittedly to be self-employed.

4.3.6 Household Income

Table 4.17 shows the distribution of household income for respondent in the study area. The average monthly household income was recorded at RM1501-RM2000, lower than the national average (2012) at RM2, 883. In the context of this study, the total monthly household income is divided into 9 categories. As a result of the questionnaire survey, the number of respondents earning around RM1500-RM2000 was the highest, at 107 respondents (31.5%), followed by category RM2001-RM3000, which was 80 respondents (23.5%). Both two highest category of income reflected the dominant occupation of the respondent in the area which is in public and private sector.

The third highest household income recorded is RM1000-RM1500, in which 72 respondents (21.2%) belongs in this category. 20 respondents (5.9%) earning household income within an estimated below RM500, followed by 10 respondents (2.9%) earning household income in an estimated RM3, 001 – RM4, 000 while 9 respondents (2.6 %) earning household income of RM4, 001 – RM5, 000 and there are 12 respondents (3.5%) who earn household income of more than RM6, 000.

Table 4.17: Distribution of Household Income

Household Income	No. Respondent	Percentage (%)
<RM500	20	5.9
RM500-RM1000	26	7.7
RM1001-RM1500	72	21.2
RM1501-RM2000	107	31.5
RM2001-RM3000	80	23.5
RM3001-RM4000	10	2.9
RM4001-RM5000	9	2.6
RM5001-RM6000	4	1.2
>RM6000	12	3.5
Total	340	100.0

Source: Social Survey, 2019.

4.3.7 Residency Period

Based on **Table 4.18**, respondent period of staying in the area is dominantly above 20 years, where it is recorded 269(78.4%) are in the category. It can be assume that the respondent is attached to the area due to long period of residency. Second highest period of residency is 0-4 years, 29(8.4%) respondents agree that they are belong in this category. As for respondents living in area radius of 0-1km from site boundary, majority has been also living more than 20 years (88 respondent or 81%).

Table 4.18: Distribution of Residency Period

Period of Residency	No. Respondent	%
0-4 years	29	8.4
5-10 years	26	7.6
11-15 years	9	2.6
16-20 years	10	2.9
>20 years	269	78.4
Total	343	100

Source: Social Survey, 2019.

Table 4.19: Distribution of Residency Period by 1km

Period of Residency	Distance from Project Boundary	%
	0-1km	
0-4 years	9	8.3
5-10 years	5	4.6
11-15 years	3	2.8
16-20 years	4	3.7
>20 years	88	80.7
Total	109	100

Source: Social Survey, 2019.

4.3.8 Property Ownership

The types and ownership of dwellings the respondent lives in are expected to reflect their socio-economic status within the community. In regards of the type of land ownership majority of respondent, that is 306 people (89.2%) admit to have ownership of the house and land they lived in. While the 37 respondent (10.8%) resolve in renting the property (**Table 4.20**). 92(84%) of the respondents living in 0-1km radius from site boundary owned their property while the rest of 17 respondents (16%) chose to rent (**Table 4.21**).

Table 4.20: Composition of Respondent property Ownership

Property Ownership	No. Respondent	%
Owner	306	89.2
Rental	37	10.8
Total	343	100.0

Source: Social Survey, 2019.

Table 4.21: Composition of Respondent property Ownership (1 KM)

Property Ownership	No. Respondent	%
Owner	92	84
Rental	17	16
Total	109	100.0

Source: Social Survey, 2019.

4.3.9 Basic Infrastructure and Public Facilities

The residents within the ZOI are supplied with basic amenities such as electricity's, piped water, waste collection, school, clinics, and place of worships. Even though the area dominantly inhabits by Malay ethnics there are still religious facilities for Indian and Chinese ethnics, as reflected in the survey findings and site study. **Table 4.22** shows the respondents' view on the availability of the public amenities and services in the area.

Table 4.22: Basic Infrastructure and Public Facilities within ZOI

Basic Infrastructure	No. Respondent			
	Yes	%	No	%
Water Supply	335	97.7	8	2.3
Electrical Supply	335	93.0	8	3.0
Waste Management	303	88.3	40	11.7
Tele Communication	322	93.9	21	6.1
Road	329	95.9	14	4.1
Sewage System	313	91.3	30	8.7

Source: Social Survey, 2019.

4.3.9.1 Education Facilities

By referring to **Figure 4.8**, majority of respondent which make up for 98% of total respondent admit to received and use educational facilities in surrounding area. Only a small portion of 2%, respondent admit to not receive the facilities in their respective settlements. Upon the satisfactory of the infrastructure majority of the respondent are satisfy (**Table 4.23**).

Table 4.23: Education Facilities within ZOI

Education Facilities	No. Respondent			
	Yes	%	No	%
Kindergarten	338	94.7	5	1.3
Primary School	338	94.7	5	1.3
Secondary School	334	93.8	9	2.3

Source: Social Survey, 2019.

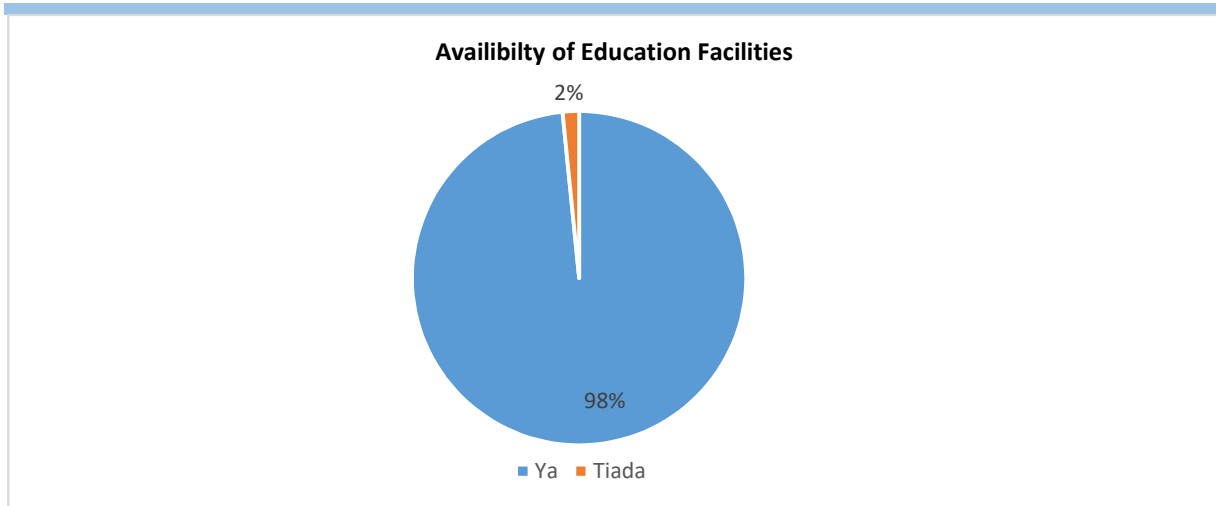


Figure 4.8: Availability of Education Facilities for Respondents

Source: Social Survey, 2019.

4.3.9.2 Religious Facilities

From **Table 4.24** and **Figure 4.9**, majority of respondent which make up for 89% of total respondent admit to received and use religious facilities in surrounding area. Only a small portion of 11%, encompass of 44 respondent admit to not receive the infrastructure in their respective settlements.

Table 4.24: Satisfactory of Religious Facilities

Religious Facilities	No. Respondent			
	Yes	%	No	%
Musolla	324	94.5	19	5.5
Mosque	331	93.9	12	6.1
Temple	253	73.8	90	26.2
Church	244	71.1	99	28.9

Source: Social Survey, 2019.

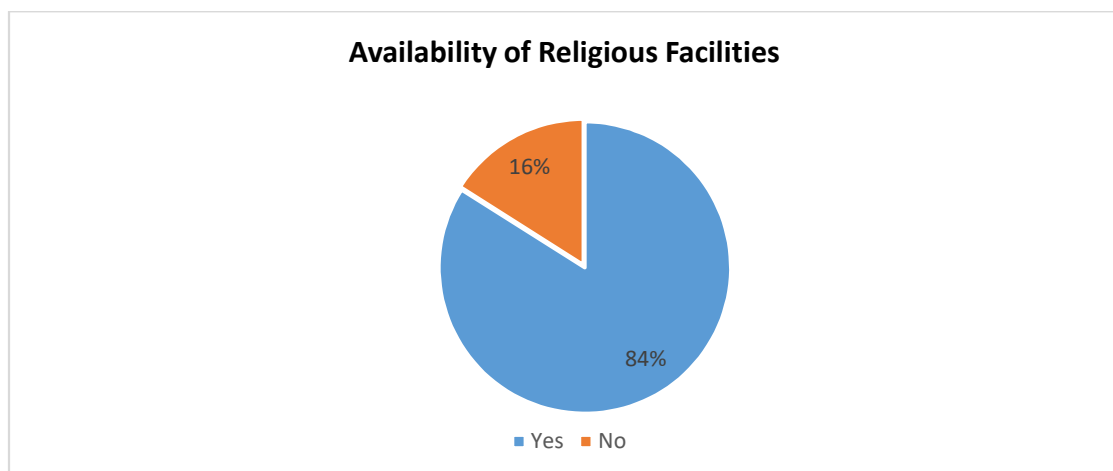


Figure 4.9: Availability of Religious Facilities for Respondent

Source: Social Survey, 2019.

4.3.9.3 Other Public Facilities

Other facilities that should be provided within the settlements areas are community hall, clinic and public library. Based on the **Table 4.25**, these three public facilities are available within respondents' residential areas, which located within the ZOI 5km radius. Therefore, the facilities provided for public are sufficient for local people.

Table 4.25: Satisfactory of Community Facilities

Social Facilities	No. Respondent			
	Yes	%	No	%
Community Hall	319	93.0	24	6.9
Clinic	337	98.5	6	1.5
Public Library	286	83.0	57	17.0

Source: Social Survey, 2019.

4.3.10 Social Problem Surrounding Community Area

Respondents were asked about the current social problems faced in the study area. The social impact of this study assesses the social impacts directly and indirectly as a result of development proposals. These social impacts are discussed from the point of view of the villagers towards their surrounding areas. Perceptions from the population and surrounding businesses are also taken into account in analysing this impact. **Table 4.26** shows respondents view on the social problems happening in surrounding area. It is believe the beach erosion is part of main social issue that has been residents concern. **Figure 4.10** to **Figure 4.12** shows the distribution of social problem (Coastal erosion, Water pollution and Flood) that were reported by the respondents. This were mainly caused by domestic waste according to respondents

Table 4.26: Social Problem within ZOI 5km Radius

Social Problem	Respondent				Total	
	Yes	(%)	No	(%)	No.	(%)
Coastal erosion	141	41	202	59	343	100%
Livestock	89	26	254	74	343	100%
flood	81	24	262	76	343	100%
road damage	89	26	254	74	343	100%
cleanliness of the surrounding area	117	34	226	66	343	100%
Water Pollution	137	40	206	60	343	100%

Source: Social Survey, 2019

4.3.11 Health Status

During the survey, the respondent were asked of their current state of health condition. The answer divided into 3 possible response which is healthy, not very healthy, and unwell/sick as seen in **Table 4.27**. There are no recorded respondent to be unwell/sick on the period of the interview was done. Majority of the respondents 296 respondents (86%) belong in healthy condition.

Table 4.27: Respondents health status

Health Condition	No. Respondent	Total (%)
Healthy	296	86
Not very Healthy	47	14

Source: Social Survey, 2019.



Figure 4.10: Distribution of reported social problem (Flooding Problem)

Source: Social Survey, 2019.

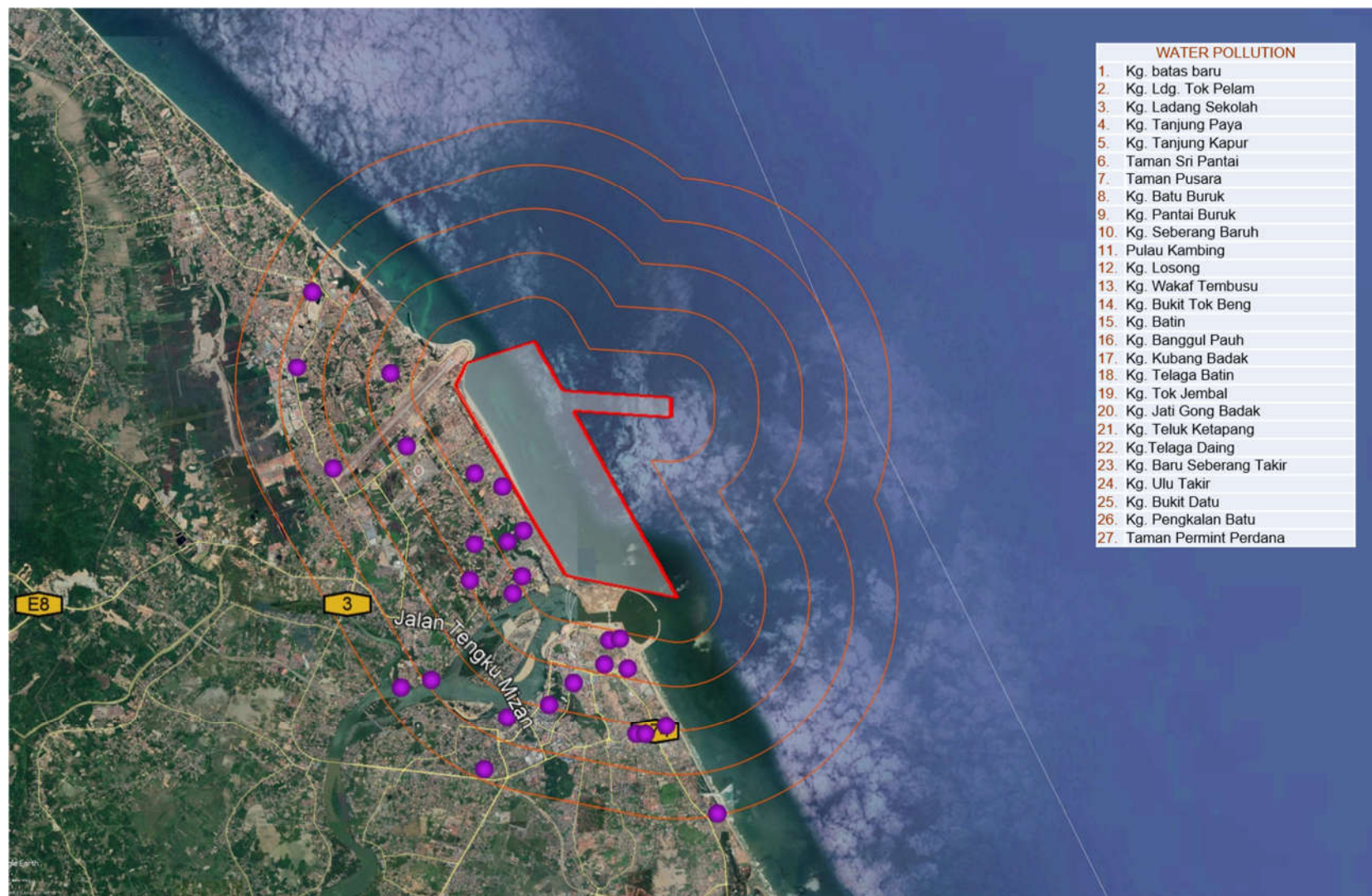


Figure 4.11: Distribution of reported social problem (Water pollution)

Source: Social Survey, 2019.



Figure 4.12: Distribution of reported social problem (Coastal Erosion)

Source: Social Survey, 2019.

4.3.12 Fisherman Profile

It is identified that the fishermen community in the study area are from Area Fishermen's Association Kuala Terengganu Utara and Kuala Terengganu Selatan. The total members of the two association combine is 1,796 fishermen which was referred as the total population of fishermen in the study area (**Table 4.28**). According to Kuala Terengganu fishermen Association there are currently 12 fishermen's village inside the study area as shown in **Figure 4.14**. There are about 14 jetties and 1 main fish landing area as can be seen in **Figure 4.15**.

Table 4.28: Population of Fishermen in Study Area

Area Fishermen's Association	Total Member
Kuala Terengganu Selatan	1,061
Kuala Terengganu Utara	736
Estimated population of Fishermen	1,796

Source: Social Survey, 2019.

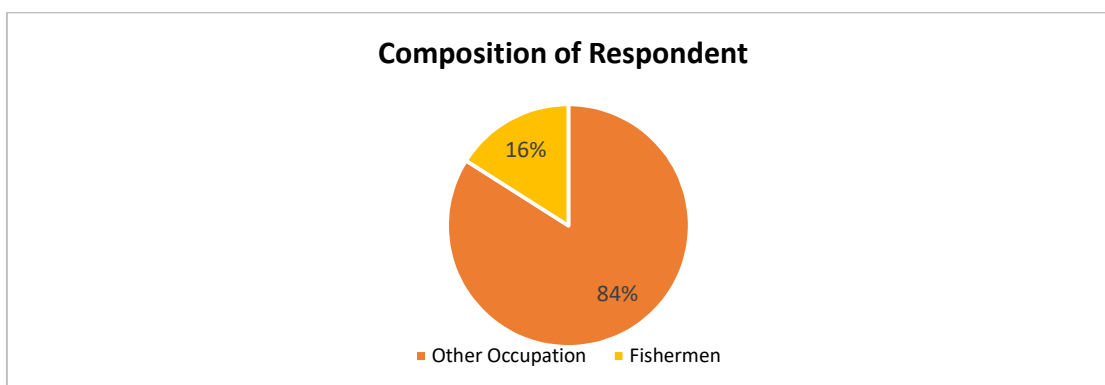


Figure 4.13: Fishermen Occupation

Source: Social Survey, 2019.

The findings from survey has identified that 64 out of overall 400 respondents who were questioned randomly within the radius of the proposed development radius were fishermen. It encompasses of 16% out of the total respondent (**Figure 4.13**). The youngest fishermen respondent recorded is under the 21-30 range of age while the highest age recorded are above 60. Result from survey shows that the majority of the fisherman are in the age of above 60. There are no respondent working as fisherman under the age of 19.

Table 4.29: Fishermen Age Composition

AGE	No. Respondent	Percentage (%)	Cumulative %
< 20	0	0	0
21-30	5	8	8
31-40	15	23	31
41-50	14	22	53
51-60	13	20	73
60 >	17	27	100

Source: Social Survey, 2019.