

RESEARCH REPORT OF MARATUA TEAM

NO	DATE	ACTIVITY	LOCATION
1	21 Juni 2014	Arrival in Nabucco Resort	Pabahan Island
2	22 Juni 2014	Visiting The Airport of Maratua	Payung-Payung Village
3	22 Juni 2014	Survey and Interview : - Mr. Sujatmono (085390149132) - Mr. Rolan	Payung-Payung Village
4	23 Juni 2014	Site Visit : - Stingless Jellyfish - Snorkeling Spot	Kakaban Island
5	23 Juni 2014	Survey Interview : - Mr. Muji Raharjo (081254196213)	Teluk Harapan Village
6	24 Juni 2014	Survey Interview : - Mr. Adriansyah (085250837851)	Teluk Alulu Village
7	24 Juni 2014	Survey Interview : - Miss Mas Roni (doesn't have HP) - Mr. Darmansyah (+6281253094068)	Bohe Silian Village
8	25 Juni 2014	Leaving Maratua	Pabahan Island

Narrative Report :

A. Payung - Payung Village

Payung - Payung is one of the name village in the Maratua. The village was first visited. Way there using boat. But the boats anchored in the village of Bohe Silian then followed the road half an hour. This is because the location of the village Payung - Payung behind Maratua when viewed from the side Nabucco resort. There is no information that we can get is:

- Source of lighting still using diesel engines. One machine can be used for 3-4 houses. Usually turned on before sunset until 12 o'clock at night.
- To turn on illumination of the solar panels start at 12 am until morning.
- The solar panels have specifications 70 A - 12 V or 120 A - 12 V.

- The price of diesel can reach 10,000 dollars per liter. For one night usually generate as much as 5 liters of diesel fuel.
- In this village there are schools from the level of playground, elementary, junior to senior high school. Junior and senior high school is only in this village, so the village children from three others had to go to school here to continue.
- Tools that require electrical energy used these villagers are for lighting, TV, fan, charging hp, washing machine, refrigerator, dispenser. Usually owned by middle class people up.
- PLN promised long ago but until now has not built the power grid. Already been measured to the length of the pole and wires but no realization.
- Here are migrants, including from philipine, malaysia.
- There is a difference of opinion on the Sama tribe or tribal Bajou. This is because the original is Bajou tribes living in the sea near the Philippines. Whereas the Sama is the tribe to tribe Bajou as Bajou language living in Maratua.
- Bagan is the name of the platform to catch fish in the sea tenga.
- Wind Speed is very fast when the south wind season. Typically could reach during the two months. Usually at month 7th and 8th.
- There are tourists that come to this village. Usually from France, Australia, German and American. Tourists come to stay 100,000 rupiah per night. Tourists usually prefer to stay in a resort paradise in this village.
- There are some interesting natural attractions that the Haji Buang lake, green turtle seaside caves, birds.
- A network can only Telkomsel provider.
- There is a health center with a nurse, but for the doctor in large health centers in Teluk Harapan villages.
- Fresh water obtained from rainwater. The well could be 1-3 meters but sometimes the water is brackish.
- They agree if Maratua used as a tourist destination. This is because it can increase the income of the population.
- Enter the village for a tourist village that is if entering the area should use decent clothes, do not wear a bikini. This is because it feared would ruin the thought of small

children in the village. It also should not drink alcohol in the village. They hope to respect the western and eastern culture is different so could be mutually beneficial.

- If the resort should be built a little away from the village.
- Starting no beach erosion. Residents need pelatihanpelatihan, and also about marine conservation.
- There are two interesting traditional dances are dalling and sesayam. Dailling is a dance typical of Maratua. Sesayam is dance and martial arts wear shields. Usually this dance use for welcome guests to the wedding.
- Work inhabitants are fishermen, employees, teachers.
- They began to send their children to Kalimantan and hope one day to return to his village Maratua to advance. The priority areas are education and health.

In the village there is an ongoing development of the airport. This means the village will be busy later as a center for access to other areas. So the local people should be ready when the village will hemp by tourists. Good to deal with a wave effect both positive and negative impacts of the wave will occur.

Documentation :



Build an airport



Street in this village



Diesel engine



Fresh water from the well



Mosque for prying



Tim for interview



Solar panel on top of the house



Colect rain water

B. Teluk Harapan Village

Teluk Harapan is one of four villages in Maratua Island. This village is a central of governance in Maratua Island; of course Teluk Harapan seems livelier than Payung-Payung village. Teluk Harapan people are working in the fisheries sector as the major profession. There is not really much activity and variation. Some of the infrastructure is poorly maintained.

Informations gathered from interviews are:

- There are 150 photovoltaics distributed to the local people
- There are electricity network from hybrid solar cell and wind turbine, but it's broken since 1.5 month ago. The responsible person said the battery needs to be replaced.
- The local people pay 15,000 rupiahs per month for electricity provision.
- The photovoltaic is not working well at rainy days.
- Primary usage of electricity is for lighting and pump.
- The biggest velocity of the wind is at the 7th month to 9th month, can be destructive they called it "musim angin selatan".
- There once a plan for integrated fresh water management from the village leader, but suddenly the project stopped without certain reason.
- Average consumption of fuel 1L/8 hour for two house.
- Clean water in this village are provided from the well.
- There are some newcomers from toraja, celebes islands, buton.
- The fishery resulted from the sea is processed to be salty fish
- The fish farmed in the shore is Kerapuh fish
- There's a Kuku lake in this village that has jellyfish (This can be a new icon of Maratua tourism)
- They are getting daily logistic from Berau, such as: rice, vegetables, meat and spices.
- There are some sea turtle in the beach of this village.
- There is elementary school, and the teacher is coming from local people.
- There are some teens from this village that getting education or working at Berau. But when the fasting season is coming, they are all gather on the village.

- The bottle plastic waste sold for 500 rupiahs per kilogram. Coke bottle is sold for 5000 rupiahs per kilo. When it reaches huge amount, they bring it to Sulawesi to be sold.
- The villager is happy if their going to be involved in tourism activity to increase their income. Such as opening a homestay
- There are about 200 children with most of them going to school
- There is only one doctor for whole island, and there is a plan to build a dedicated hospital in Teluk Harapan and upgrade the current hospital
- Gathered coconuts are dried and bring them to Sulawesi, which will be produced as cooking oil.
- There is a port under construction on the beach.

After the survey and interview, we can conclude that the technologies brought to the village are poorly maintained. Local people thought thing that should be done first is electricity generator. They have solar cell for each house but it can't be the main supply of electrical needs. Another thing that matter in this village is about the waste. We saw a lot of garbage and it needs to be managed before it began to contaminate the soil. The infrastructure provided need to be maintained and there should be a person who maintain and repair the infrastructure, because the infrastructure provision is really good and the maintenance is so poor.

Teluk Harapan has a potency to be a central of fish embankment because there are mangroves plantations which would ease the fisherman in supplying food for the fish. There are some open spaces that naturally transformed in the village which can be used as a place of electricity generator. The clean water provision is fair but we need to think another alternative just in case of the acid rain from main land would occurring Maratua Island. We need to desalinate water and manage it to be clean water.



Figure 1. Accessibility Problem: Road and Docks Maintenance



Figure 2. Electricity Generator (had been off for a year)



Figure 3. Waste needs disposal management



Figure 4. Fish embankment

C. Bohe Silian Village

Bohesillian Village is the official tourism village appointed by the municipal government of Berau. This Village shows great development (house, hygiene, citizen activity), compared to the others. It's strong point located in the accessibility, communication (strong signal), and accommodation (homestay) for the tourist. In this village, they've been running homestay program since 2011. Here are several fact of the village, based on the interview.

- It has typical climate like the other village, with north and south wind as their main disturbances. Each occurs around january to february and july to august respectively.
- Their main energy source is a diesel engine. With average consumption 1L/hour.
- Their main clean water source is from the rain water. They contain it in a huge container like the other village
- This village has more occupation type rather than the other village. They have a homestay host, a guide, a shop owner, and many more. This is the most prepared village for tourist development purpose
- Currently there are 27 Homestay bussiness running with each different host. Mr Tarmi (+6281331619979) is in charge for the regulation and supervised by Mr poyoy (tolong di isi no hpnya) as the village leader
- The Homestay regulation are based by local customs with the means to even out the possible income for each homestay host. This regulation main objective is to prevent future social conflict
- The main problem for this village is energy and water. Government and private sector support also expected for their tourism industry development other than homestay business.

This is the most suitable pilot village for the development of Maratua Tourism Industry. Their resident are prepared for the changes that may come to their live. They also willing to take part in this new industry, hoping it could improve their way of living.



Bohesillian village neighborhood layout



Example of Bohesillian villager house

D. Teluk Alulu Village

Teluk Alulu is one of the village in Maratua island. From Pabahan Island we can visit this village using small boat. After 30 minutes of boating, the boat arrived in a calm and windy village. Once we arrived in Teluk Alulu, we can see the desalination water machine from the government. This device is to desalinated the salty water from the ocean into a fresh water. Unfortunately, this device does not work since a month ago. After checking the desalination device, Maratua tim come over the local to interviews how's their life going.

Informations gathered from interviews are:

- There are 180 house holder, 25% of them living below the poverty line.
- Almost the local people of Teluk Alulu village is a fisherman, the rest of them is civil worker and farmer.
- the farmer produce kopra to sell to Sulawesi, and Coconut to sell to Berau.
- The range income of the villager is Rp. 800.000 – Rp. 3.000.000/month. Which is the civil worker has Rp. 2.500.000 – Rp. 3.000.000/month salary range, the fisherman has Rp. 1.500.000 – Rp. 2.000.000/month salary range. And the poor (who does not have any special work) has less than Rp. 800.000 income range.
- The local can not bore the wells because it's only provide salty water. They get fresh water from the rain water or buy the fresh water from Teluk Harapan Village which is cost Rp. 25.000/jerry can.
- Mostly, the electricity source is from the diesel, because solar panel can only turn on the light from 05.30 pm until 12.00 am.
- The diesel need 50 litres of solar per month. mostly to electrified television and washing machine.
- all the daily needs comes from berau, they transport rice, sugar, oil and etc with a small rent boat. the rent boat itself cost Rp. 200.000.

- although most of the villager are fisherman, but they dont sell the fresh fish by themself. they keep the fish in the ice until 5 days and then sell them into the distributor.
- there are no ice maker or ice box in the village. the fisherman have to buy the ice from berau.
- once upon a time, the local government had a plan to built a market where the fisherman can sell their fish to the buyer, but the plan never come true.
- there are no criminal problem in this village.
- there are one resort in this village, called Paradise resort. the owner comes from Malaysia.
- there are one medical center and one elementary school as a public facility.
- they dont have any waste management, mosy of plastic waste being collect to sell to waste collector. 1 kg of plastic bottle price is Rp. 500.
- traditional food from this village is "sarang semut" whixh also can be a traditional drug.

Because of the same geographical with the other village, Teluk Alulu has the same culture, weather and problem issue with the other village. One of the biggest problem in this village is they can't dig the well because the well only provide salty water, moreover the desalination device does not work since the batteries broke down. They obviously need not only an eco friendly energy to get fresh water but also a simple technology that the local understand.