ROTARIANS AGAINST MALARIA



LONG LASTING INSECTICIDAL NET DISTRIBUTION REPORT

SANDAUN PROVINCE Aitape Lumi, Nuku and Vanimo Green Districts

Carried Out In Conjunction With The Provincial And District Government Health Services And The Church Health Services Of Sandaun Province

With Support From Against Malaria Foundation and Global Fund

26 October 2017 to 3 February 2018



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Executive Summary

Sandaun is a province of PNG made up mostly of low altitude coastal planes with inland mountains running parallel to the coast in Aitape Lumi, and Vanimo Green. A further high mountain range exists in Telefomin District where altitudes rise to over 3,000 metres (See Appendix Three). Areas above 2,000 metres are considered malaria free but most people in Sandaun live at lower altitudes where malaria is endemic.

A family level survey and distribution of Long Lasting Insecticidal Nets (LLINs) were carried out between 16 September and 28 November 2017 in the three districts of Sandaun province called Aitape Lumi, Nuku and Vanimo Green. Both Nuku and Aitape Lumi are mostly accessible by road whereas large areas in the south of Vanimo Green District can only be accessed by boat. Telefomin district will receive nets in late 2018.

Table One shows the estimated population and actual population found in each district along with the number of LLINs distributed by district. In total, 126,019 LLINs were distributed to a population of 230,459 people. This resulted in distribution of 48.3 nets for every 100 people in the province.

District	Census Population 2000	Population Surveyed in 2014	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017
Aitape Lumi	53,382	80,667	89,287	16,684	44,110
Nuku	46,021	68,061	75,099	15,372	37,802
Vanimo Green	50,751	81,731	91,731	14,816	44,107
Totals	150,154	230,459	256,117	46,872	126,019

TABLE ONE – Population And Nets Distributed In 2017

A further 83 LLINs were donated to health centres as nets were surplus to requirement and in most cases could not be easily returned to a central location. These nets would be used by pregnant mothers and for hospital beds where needed.

The overall operational cost of the programme was 473,354.12 Kina (Approximately US\$145,647) resulting in a unit cost of about 3.76 Kina or US\$1.16 per net delivered which was about 7% under the anticipated overall budget. There were overspends in car hire, fuel and savings in human resources.

Overall, the distribution went very well in Sandaun except heavy rains in December made some areas in Aitape Nuke district practically inaccessible. This means the Aitape Nuku distribution could not be completed by the end of the year thus the team had to return to this area after the Christmas break.

Feedback from partners and communities suggest they were happy with the methodology used as the process appeared transparent to all concerned. However, as always, there were a few families who complained that they did not receive enough nets but for the most part it is believed that this was a result of families not fully understanding the allocation system used.

The Against Malaria Foundation (AMF) generously donated all nets while the Global Fund (GF) provided the delivery costs of nets at the family level. Without these two donors, the delivery of nets into Sandaun would not have been possible.

The history of LLIN distribution in PNG and Sandaun Province is discussed in Appendix One and the malaria situation and stratification of malaria in Sandaun are discussed in Appendix Two and Appendix Three.



Fig.1 – Training Volunteers In Amanab (Left) And Green River (Right)

Background

Rotarians Against Malaria (RAM) is a nationally based organisation which was formed in 1997 by the Port Moresby Rotary Club in recognition of the tremendous burden that malaria imposes on the people of PNG.

RAM has an organizational mandate to work in malaria control and the distribution of LLINs in Papua New Guinea and has been working for many years with the National Department of Health (NDOH) and other partners including multilateral and bilateral agencies such as UNICEF and WHO (World Health Organisation), NGOs and church groups. (See Appendix One for full history of LLIN Distribution)



Fig.2 Training in Green River (Left) and taking nets to Nuku (Right)

Since 2010, RAM has been coordinating the distribution of nets to all districts and provinces on a three-year recurrent cycle. This effectively means that RAM visits every village in PNG every three years. RAM is funded by the Global Fund since 2019 and since 2017 also from Against Malaria Foundation which supplied PNG with all its nets. The Global Fund resources are now used for LLIN distribution costs and other relevant administration costs.

Generally, LLINs have been distributed to household level throughout the country but when shortage of funds occurred, different strategies of distribution have been used.

PNG can be roughly divided into five epidemiological zones.

- a) Areas which lie above 2000m in altitude will no longer receive LLINs as malaria transmission is not considered possible at these altitudes.
- b) Low lying areas of the country up to 1200m which have stable malaria endemicity and often have poor access to health will continue to have household distributions.
- c) Areas from 1200 to 1600m which are generally considered to be of low transmission potential but may concede occasional epidemic due to poor immunity and changing weather conditions. LLIN distribution will continue in these settings.
- d) Highlands regions between 1600 to 2000m in altitude such as Mount Hagen which have low malaria endemicity and generally easy access to health services. These are low priority areas due to current funding constraints, however, RAM is trying to find additional funds to cover these areas
- e) In urban and peri-urban areas such as Port Moresby which are low lying areas with easy access to health, nets will not be distributed during funding constraints. Nets to these areas will be supplied through the private sector.

As a result of this stratification and when funds had been reduced such as at the end of 2014, areas above 2000m no longer received nets and areas from 1600 to 2000m only received under five campaigns in 2015 and 2016. However, due to the LLIN donation from the Against Malaria Foundation (AMF) in 2017, all areas are now receiving household distribution of nets-except areas above 2000m, and some urban areas such as NCD, Goroka, Mount Hagen and Mendi. However, for the years 2019 and 2020 funding for areas between 1600-2000 metres still remains tentative.

Only a few scattered villages of Sandaun lie above 2000m, therefore in 2017, for practical reasons, all areas in all districts were included for LLIN household distribution at a rate of approximately one nets for every two people.

One of the conditions of the AMF donation is that RAM would strengthen the way in which surveys are carried out. These new innovative processes are described in the Methodology Section. These methodologies now being carried out since the beginning of 2017. The major change to the survey methodology suggested by AMF is that previously a village meeting was called after a survey was carried out where names of family members were read out to ensure that all households had been surveyed. Instead of this process, a summary of every village surveyed is posted for 24 hours in a public place so that villages can ensure that all their family members have been included in the survey. As a further verification process, members of RAM and local health staff team carry out random house surveys of 6% of households in every village to ensure that the survey process has been carried out correctly.



Fig.3 – Surveying Households In Green River

For household LLIN distributions, regardless of where they are carried out must include a survey and a distribution phase though implementation methods may considerably vary depending on specific circumstances. RAM's approach has been to concentrate on program quality thus RAM develop methodologies that ensure that all recipients in an area actually receive nets and that this can be reported accurately.

The other major change to the original PNG programme of 2004 to 2009 carried out by the NDOH is that nets are allocated to families on a needs basis rather than simply the number of people in the family. Data analysis of National Capital District (NCD) data has shown that this gives a ratio of nets needed to be about 47 for every 100 people. In the previous LLINs distribution of Round-3 in 2006 to 2010, nets were allocated at a rate of one net to every 2.5 people. With the programme only receiving 80% of LLIN needs, and most provinces distributing for example two nets to families of three, in practically every province, nets ran out before the end of the distribution. The RAM programme makes all attempts to assure that this distribution anomaly does not happen by collecting all population information at the beginning of the program and then allocate the nets based on family needs. This strategy is practiced to ensure that all families receive nets throughout any given province. The only scenario where is not practically possible to return a second time. This is particularly the case in remote villages which can only be reached by boat and it is costly and impractical to return to the villages for a second time.

In terms of coordination, RAM officers are allocated to specific LLGs or health centres where they coordinate the programme together with local health staff. In this capacity, RAM officers act as facilitators in terms of technical guidance to district health teams in each LLG as well as acting as financial officers and assuring quality control of activities taking place.

Schedule

This distribution took place in the eighth year in which RAM has been involved in the distribution of nets in collaboration with Provincial Health Authorities in PNG. Survey and distributions were carried out as per the table below. Operation commenced in Vanimo Green and then other teams started in Nuku and Aitape. As Vanimo Green has no road contact with Aitape and Nuku, nets were sent separately by boat to Vanimo and Wewak respectively.

Most villages of all three districts are reachable by road while few require trekking. However, the southern part of Vanimo Green can only be reached by canoe.

	Sur	vey	Distri	bution
District	Start	Finish	Start	Finish
Aitape Lumi	14.11.17	28.01.18	15.11.17	03.02.18
Nuku	07.11.17	27.11.17	21.11.17	10.12.17
Vanimo Green	26.10.17	01.11.17	31.10.17	23.11.17

TABLE TWO General Timetable Of Activities In Sandaun

Methodology

Prior to planning and implementation, a master list of all villages of Sandaun was drawn up using data from the 2000 Census and the last RAM survey of 2014. Villages in the list were organised by LLG and Ward. In this master list, the estimated population for 2017 for each

village is recorded in two ways, first estimated population figures from the 2000 Census and the estimated annual growth rate for Sandaun and then by taking the population surveyed in 2014 and applying the annual growth rate to each village.

In all areas, Health Centres form the hub from which distribution takes place to the respective villages in each health centre's catchment area. Therefore, with the planning data at hand, the project manager of RAM works together with the Provincial Health Office to allocate every village to its nearest health centre (government or Church Based) and outlines how each village is reached from each health centre. From this it is possible to create a budget, estimate how many nets are needed to be sent to each health centre and work out any other logistic considerations such as use of airplanes or boats to deliver nets to some remote areas.

Once all logistical needs are calculated and nets delivered to the province or district, a RAM team will travel to the province. Once there in the province, RAM officers are allocated to work with each health centre which becomes the centre of operations for that area.

With the arrival of RAM officers, each health facility identifies health staff members or nonhealth volunteers to be involved with the programme. If local health staff are selected then they are referred as District Health Team (DHT) but if a non-health staff is selected then s/he is termed as a Team Leader. Both DHTs and Team Leaders are responsible for the survey and distribution of nets. Each DHT and Team Leader work only in the area in which the health facility is based.

Before any activities take place, RAM officers are expected to work with health staff and other team leaders to make detailed plans (micro-planning) of their activities for training, survey, verification and distribution of nets. This process involves- making maps of the area, deciding how many teams are needed, and then making detailed work plans for each of the team members. This process also involves verifying that no villages have been left out of the census list and that the whole area is covered.

Also prior to field activities in any given LLG or health centre, a social awareness campaign was carried out in all villages informing villagers of the upcoming survey and distribution. This was also used as an opportunity for RAM officers to become familiar with each area. During this process, key malaria messages were also discussed with villagers such as the need to use LLINs every night.

During the social awareness campaign, a daylong training meeting is normally held at each health facility for all DHT members in that area who jointly carry out the micro-planning exercise. These training and micro-planning sessions as well as all other activities associated with the programme are coordinated by RAM project officers together with health counterparts at provincial and district levels. RAM officers also have the responsibility to ensure the LLINs operation kept in line with the original budget.

Survey

The survey was carried out in the following way.

- 1) When arriving at a village and before starting the census process, a meeting was held with village elders explaining the process.
- 2) If village elders have an up to date list of all village occupants, the team would use this list to compile a census.
- 3) Where a village is small, e.g. less than 30 families, team members may carry out the census by themselves.
- 4) Where villages were large, village volunteers were identified with the assistance of the village chiefs, elders, health staff and councillors. One volunteer was chosen for each

group of about 50 families with volunteers chosen by natural divisions in the village e.g. clans where one volunteer would make a list of only one clan. These volunteers were trained to carry out the survey by actually surveying houses with the team leaders supervising and assessing the recording. Once the team leader was confident that the volunteers knew the survey methodology, they were left to continue with the household survey with survey teams returning within an agreed period to verify the work of the survey volunteers, collect survey books and also to pay the survey volunteer, provided the work was carried out correctly. The training of volunteers may occur in groups or individually depending on access to the village and its proximity to other villages.

- 5) For each household surveyed, all family members who normally reside at the household for a minimum of nine months were recorded by Name, Age, Sex and Relationship to head of household. All names and other information was recorded in the survey book with one survey form being used for each household.
- 6) After surveying a household, a white copy of the census form was given to the head of household or most senior person present in the household.
- 7) Where a whole household was absent, information was taken from the neighbours and the white survey form left with them.
- 8) In all cases, after the census/list was finished, all the information about the households and number of household members is entered into a summary sheet. This list is then hung in a public place where all villages can verify that the right number of family members for each household has been recorded and that all families have been included in the survey. After the list has been in a public place for 24 hours, then the volunteer requests for the RAM officer and or DHT to visit the village.
- 9) RAM officers and DHTs must visit three households randomly from each survey book (6%) and verify that the survey has been carried out correctly. Only when this has been done, then the volunteer can be paid.
- 10) If a village was surveyed by more than one volunteer, then volunteers were asked to work together so that lists can be hung together and the village volunteers can be verified at the same time. This process also ensures that households do not appear on more than one list. After this process, both the volunteers and the village elders sign a form to verify that this was done.
- 11) All village volunteers received a standard payment of 20 kina a day. Experience has shown that volunteers can usually only survey about 30 families a day, so for the most part, they would receive up to two days allowance to complete a survey book.
- 12) All volunteers were also given a small training manual. Contained in this training manual are key health education messages about malaria which volunteers are expected to discuss with households. This perhaps is the only project in PNG that is able to reach down to potentially every household in the country.



Fig.4 Distributions In Green River

To aid with the survey, the master plan with names of all census units in all the wards in the district had been printed out and given to all the DHTs and team leaders. This document also provides the projected population per census unit as well as other information which might be useful to the area concerned.

After collecting survey data from each village, the information is immediately compared with the data on the master sheet. Where the surveyed population is very different from the projected population, the project staff make enquiries into the reasons for these discrepancies.

Following the survey, all data was entered into a computer where possible or entered into a master sheet of the area concerned. For each village, nets were allocated to each family on a needs basis and this is also entered into the computer or master sheet. This process ensured that all villages received nets and that there would be no shortfalls.

The needs basis in PNG is based on the assumption that children under the age of six sleep with their parents, after which boys and girls are grouped separately from their parents. Nets are also allocated based on the number of children in the house, their ages, and whether there are other dependents living in the households such as grandparents. A full description of the allocation system can be obtained from RAM officers but suffice to say a family of four could receive between one to four nets depending on the sex and age of family members.

Nets are allocated to each LLG based on assumed populations of each LLG and it was important prior to the distribution to ensure that when allocations had been carried out to families and villages that there were enough nets available to cover each and every family.

Distribution

There was no official launch for the LLINs distribution in Sandaun. However, prior to distribution there was a social awareness phase where the project teams informed communities about the arrival of the distribution teams, especially those accessible by road.

The LLINs were then distributed to teams depending on the needs of each village. The LLINs were then distributed by village or wards depending on whether villages were close together. In this latter case, a central location was identified in the ward and then distribution of nets was carried out. In terms of distribution sites, villages were organised in different ways to make the flow of nets easy and effective. However, the actual organisation depended on each team and the structure of the various groups receiving nets.

All net packaging was opened at distribution site with a district code printed on each net e.g. SN17 for Sandaun 2017. This code is added to identify nets to assist in future monitoring exercises as well as discouraging householders from selling the nets on the open market.

Some examples of the process used to control the crowd includes;

- Arranging the people according to the serial numbers in the survey books e.g. 72001 72050 and then calling the names and the serial numbers.
- Call the names of the owners of the households, collect the white copy and give the nets.
- Wait for everyone to come to the distribution site, collect all the white copies and sort the copies with the pink copies. Call the names on the white copies and give the nets.

Some of the following control methods were used.

- Everyone who presented with a white copy was given LLINs at the distribution site with LLINs only given to the owner of the house or a member of the house whose name is written on the back of the survey form.
- Those people who lost the white receipts were left to the end of each distribution, with nets only being issued if the name of the person collecting the nets was found on the back of the pink copies.
- For those families who were absent at the time of distribution, their names were written in a form – MOSQUITO NETS HELD IN TRUST BY VILLAGE CHIEFS FORM and the nets allocated to missing families were given to chiefs or any person entrusted by the community with the forms for these families to collect their LLINs later.
- Householders are now being asked to make a thumb print as proof of delivery of nets to a
 household. The Global Fund had formally asked that householders should sign for delivery
 of nets. This was considered problematic as many householders are illiterate and even
 where householders can write, this process takes a long time in what is often a very chaotic
 and charged environment where speed is of the essence.

It should also be noted, surveys and distributions took place at more or less the same time in some remote places of Sandaun province. This is particularly true for mountainous villages or small islands which might take several hours or days to reach. In these instances, estimations based on the 2000 Census data and local knowledge used to pre-allocate nets. Teams were then dispatched to these areas with nets. On arrival in these remote places, surveys took place and were immediately followed by a distribution based on the survey results.

Other details

In the case of Sandaun Province, all LLINs were delivered to Lae by ship from Vietnam (via Singapore) in seven containers where they were custom cleared. These containers were temporarily stored in Lae before being transported by sea to Vanimo (two containers) and Wewak (five containers). Vanimo shipment was kept at the Vanimo Hospital while Wewak shipment was at the Provincial Government Office. All containers were unpacked in Vanimo and Wewak as the roads to Nuku and Aitape from Wewak are not suitable for very large trucks.

Results

The programme surveyed a total of 256,117 people in the three districts to which were distributed 126,019 LLINs. This resulted in distribution of 49.2 nets for every 100 people in the province. Table Three shows the distribution by district while Table Four shows the distribution by LLG.

TABLE THREE Nets Distributed At District Level In Sandaun

District	Census Population 2000	Population Surveyed in 2014	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017	Growth Rate Against 2014 Survey	Growth Rate Against 2000 Survey	Nets Distributed Per 100 People
Aitape Lumi	53,382	80,667	89,287	16,684	44,110	3.44	3.07	49.4
Nuku	46,021	68,061	75,099	15,372	37,802	3.33	2.92	50.3
Vanimo Green	50,751	81,731	91,731	14,816	44,107	3.92	3.54	48.1
Totals	150,154	230,459	256,117	46,872	126,019	3.58	3.19	49.2

Table Three shows an overall growth rate from 2000 of 3.19 but since 2014 it is 3.58 which is a very high growth rate. Table Four also shows population movement from remoter areas to urban areas such as from West Aitape to East Aitape as access in West Aitape is now very poor. Similarly, from Walsa Rural in Vanimo Green to Vanimo Urban.

LLG	District	Population Of Targeted Areas In 2014	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017	Growth Rate Against 2014 Survey	Nets Distributed Per 100 People
East Aitape Rural	Aitape Lumi	35,131	38,762	6,716	19,322	3.33	49.8
East Wapia Rural	Aitape Lumi	11,945	14,234	2,973	6,986	6.02	49.1
West Aitape Rural	Aitape Lumi	22,638	23,474	4,239	11,470	1.22	48.9
West Wapia Rural	Aitape Lumi	10,953	12,817	2,756	6,332	5.38	49.4
Mwase Rural	Nuku	31,395	34,932	7,613	18,063	3.62	51.7
Palma (Palai) Rural	Nuku	18,454	19,471	3,635	9,797	1.80	50.3
Yangkok Rural	Nuku	18,212	20,696	4,124	9,942	4.35	48.0
Amanab Rural	Vanimo	13,979	15,909	2,715	7,537	4.41	47.4
Bewani\Wutung Onei	Vanimo	22,513	26,279	3,993	12,622	5.29	48.0
Green River Rural	Vanimo	16,449	18,137	2,891	8,899	3.31	49.1
Vanimo Urban	Vanimo	18,624	21,006	3,338	10,106	4.09	48.1
Walsa Rural	Vanimo	10,166	10,400	1,879	4,943	0.76	47.5
Totals		230,459	256,117	46,872	126,019	3.58	49.2

TABLE FOUR Nets Distributed At LLG Level In Sandaun

Referring to Table Five, it can be seen that a further 83 LLINs were donated to health centres as nets were surplus to requirement and in most cases could not be easily returned to a central location, particularly from health centres which could only be reached by aeroplane or boat. These nets would be used by pregnant mothers and for hospital beds where needed.

TABLE FIVE Nets Donated To Health Centres

District	LLG	НС	Donated
Nuku	Palma Rural	Wasisi HC	83
Final			83

TABLE SIX Cost Of Programme In Sandaun (All in Kina)

Cost Category	Budget	Actual	Variances	% Variance
Human Resources	199,391.00	178,662.50	20,728.50	89.6
Fuel Cost	39,910.00	45,579.70	-5,669.70	-14.2
Car Hire Cost	189,000.00	214,382.60	-25,382.60	-13.4
Boat Hire Cost	47,700.00	12,190.00	35,510.00	25.6
Stationeries/Supplies	6,000.00	5,988.50	11.50	99.8
5% Contingency	27,505.00	16,550.82	10,954.18	60.2
Total	509,506.00	473,354.12	36,151.89	92.9

Referring to Table Six, it can be see that the overall operational cost of the programme was 473,354.12 Kina (Approximately US\$145,647) resulting in a cost of about 3.76 Kina or US\$1.16 per net delivered which was about 7% under the anticipated overall budget. There were overspends in car hire, fuel but savings made in human resources. It should be noted that this cost of expenditure is less than that of 2011 – as many areas, particularly in Vanimo Green, now being accessible by vehicle whereas in 2011 they were only accessible by air which was a very expensive option.

The project also looked at radio or cell phone coverage in the different parts of Sandaun. Referring to Table Seven, the data suggests that in Sandaun, there is generally a reasonable coverage by Digicel except in Vanimo Green but radio coverage is very poor in both Nuku and Aitape Lumi Districts

TABLE SEVEN	
Cell and Radio	Coverage In Sandaun

District	House Holds Surveyed	Villages	Digicel	Bmobile	Houses with Radios	Villages with Radio Network
Aitape Lumi	16,684	231	169	7	1,473	81
Nuku	15,372	176	175	0	263	42
Vanimo Green	14,816	287	97	6	2,061	220
Total	46,872	694	441	13	3,797	343



Fig.5 – Transportation Difficulties In Amanab

Conclusions

Overall, it can be said that the project was a success both in terms of results and collaborative work done by staff from RAM ,provincial and district health authorities,, and Catholic and Christian Bible Church Health Services i.e. those who have a presence in the province. Through this collaboration, the data suggests that all villages and practically all families in those villages received nets.

The major achievement of the programme was also demonstrating that the new verification process introduced by RAM was practical and was generally accepted by both health staff, communities and volunteers as the survey system is now more transparent. Due to this transparency, RAM officers generally received far less complaints during this distribution cycle than previous distribution cycles.

As with other provinces in the country where RAM has operated in over the last seven years, the methodologies used this time appeared practical and were openly welcomed by both villagers and implementers, particularly the practice of hanging up the list of names in the

middle of the village following a survey: this allowed communities to feel that they were part of a transparent process. This is not to say that perhaps some extra people managed to slip into the books, but in general, it was felt that the system was fair and included practically everyone concerned. The use of the master lists also ensured that all villages were reached and accounted for.

The review of the data prior to the distribution was also important. This ensured that all villages and families received the correct numbers of nets. The 2000 Census Lists were very important to ensure that survey teams reached all villages: without the complete list of villages, it would be very difficult to make a detailed report.

The greatest complaint still received by communities was the number of nets they received. Even though the team explain the logic of how the allocation of nets is calculated, some families were expecting one net per person, others expected it to be based on a fixed allocation based on the number of people in the family, and yet others thought they would be given nets based on the number of nets they stated they already had. This highlights that a better system of explaining the allocation system needs to be developed. In general, unlike some previous districts covered by RAM and DHTs of Sandaun assisted in the allocation of the nets which meant they were in a better position to explain the distribution system on the ground. Nevertheless, despite all the difficulties involved, it would appear that the vast majority of community members accepted the outcome and there were no real problems or complaints encountered.



Fig.10 – Distributions in Alexischafen

Acknowledgements

On behalf of the Rotarians Against Malaria household distribution team who worked in Vanimo Green, Aitape Lumi and Nuku, we would like to sincerely acknowledge and thank the West Sepik Provincial Health Authority and all District Health Staff of the three districts for the excellent help and cooperation during the LLIN distribution programme.

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For the district staff, we would like to thank all those who tirelessly took part in the programme, particularly, RAM would like to acknowledge and mention the following people who were instrumental in the planning and implementation of the programme namely:

Vanimo Green District

Name	Occupation	Institution
Symphoran Sumun	District Health Manager	West Sepik Provincial Health
Sr Miriam Ake	Officer In Charge	Amanab Health Centre
Nr Susan Esis	Officer In Charge/CHW	Utai Health Centre
Mr Max Yawi & Mr Oscar	Officer In Charge	Dabu Health Centre
Mr Ian Binauwa	Nursing Officer	Green River, Dio River and
	_	Stone Pass Health Centres
Mr Rodney	Health Extension Officer	Green River, Dio River and
		Stone Pass Health Centres
Sr Maggie Numbrea	Officer In Charge	Imonda Health Centre
Mr Simon Bantor	Officer In Charge	Wasengla Health Centre
Mr James	Officer In Charge/CHW	Fas 2 Aid Post

Aitape Lumi District

Name	Occupation	Institution
Ms Linda Ambrua	District Health Manager	West Sepik Provincial Health
Mr Jeremiah Tilau	District Health Inspector	West Sepik Provincial Health
Mr Timothy Amandruk	Aid Post Supervisor	Raihu Health Centre
Mr Vincent Nivani	Nursing Officer	Pes Health Centre

Nuku District

Name	Occupation	Institution
Mr Cornillus Aris	District Health Manager	West Sepik Provincial Health
Mrs Elisabeth	Officer In charge/ Health	Nuku Health Centre
	Extension Officer	

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Last but not the least, RAM would also like to extend our acknowledgement and appreciation to all the hard-working Community Based Distributors (CBD) for assisting in conducting the household surveys with the other local volunteers. CBDs have played a very important role in ensuring the distribution progressed well without any interferences from the general public.

RAM thanks all relevant stakeholders and CBDs for their hard work, support and cooperation during the Bed net Household distribution programme.

Appendix One – History Of LLIN Distribution In PNG

The use of Insecticide Treated Nets (ITNs) started in PNG in 1985 when the PNG Institute of Medical Research (IMR) conducted one of the first trials demonstrating the health impact of treating mosquito nets with insecticide. The study, done near Sandaun, showed a reduction of *P.falciparum* incidence and prevalence in children below five years of age sleeping under permethrin-treated nets. The protective effect of insecticide-treated nets (ITNs) was also confirmed in many other trials around the world. As a consequence of such findings, the national malaria control program in PNG started emphasizing the use of ITNs in 1989. However, no regular or large-scale distribution of ITNs was carried out at this time.

In the following years, coverage with mosquito nets and other control interventions remained patchy and low in many parts of PNG. It was during this period that Rotarians Against Malaria (RAM) was created from the Port Moresby Rotary Club in 1997. Using a donation of 150,000 treated nets given to them from the National Department of Health (originally from AusAid), RAM successfully ran a revolving fund of nets in which nets were sold at a price which allowed the proceeds to buy more nets. RAM did this successfully for many years distributing about 45,000 treated nets a year from 2000 to 2004.

Prior to 2004, most treated nets had to be re-treated every six months or a year which requires a lot of work and organisation. In early 2004 everything changed with the introduction of Long Lasting Insecticidal Nets (LLINs) which would last for 20 heavy duty washes and effectively no longer required to be treated repeated. This change in nets also coincided with the introduction of the Global Fund into PMG known as the Global Fund Round 3.

From 2005 to 2009 the malaria programme in PNG received and delivered about 2.3 million nets throughout the country at a rate of one net for every 2.5 people. The delivery of nets to village level was under the provincial health authorities and reached most parts of the country with Rotarians Against Malaria (RAM) being responsible in delivering the containers of nets to the provinces from Port Moresby and Lae where the nets arrived from overseas.

While the programme was very successful in some areas it was not so successful in others. Problems included slow release of funds from central to provincial level, some provinces not following technical guidelines given resulting in some areas not been covered, and technical and financial reporting leaving a lot to be desired in many of the provinces. When further funds became available in what is known as the Global Fund Round Eight, it was decided that Rotarians Against Malaria (RAM) would take over the coordination of the LLIN programme.

This change has resulted in RAM being responsible for the overall coordination of the LLIN distribution of LLINs in the country particularly in the areas of quantification, procurement, reporting and delivery to provincial and district level. However, the actual delivery of nets to village level is a collaboration between RAM, provincial health authorities and district health and health centre staff.

Fig.1 shows the distribution of nets to districts and provinces from 2006 to 2009 while Fig.2 shows the distribution of nets from 2010 to 2014 and Fig.3 shows the distribution from 2015 to 2017 which includes under five distributions in 2016 and 2017. Under Five distributions had been carried out in areas above 1600m and in Port Moresby and Lae City due to lack of funds. This situation changed when support from Against Malaria Foundation was received.

Up until June 2017, a total of 8,223, 853 had been distributed under the coordination of RAM. Therefore, with the 2.5 million nets distributed from 2006 to 2009, this means that about 10.5 million nets have been delivered to household level in PNG since 2006. This is more than one net per every person in PNG. RAM has also distributed about another 1.2 million nets to health centres for distribution to pregnant women and for prisons and boarding schools.

It should also be noted that alongside developments related to treated mosquito nets, the first cases of chloroquine-resistant malaria were reported in 1976 (20). This progressed rapidly to widespread resistance of *P.falciparum*, and to a slightly lesser extent *P.vivax*, to chloroquine, amodiaquine and sulphadoxine-pyrimethamine (SP). In studies conducted between 2003 and 2005, even combination regimens of these drugs faced up to 29% resistance of *P. falciparum*². This situation together with Global Fund Round 8 *also* saw the introduction of arthemeter lumfantrine branded as Malawan, IPT (Intermittent Preventative Treatment) for antenatal women.



Fig. 1 Distribution Of Nets Under National Department Of Health From 2006 To 2010



Fig.2 Distribution of LLIN Programme 2010 to 2014



Fig.3 LLIN Distribution Programme 2015 to 2017

Period	Dates	Districts	Provinces	Nets Delivered
Phase One (2010-2011)	Nov 09 - Oct 11	50 Districts	18 Provinces	1,890,448
Year 3 (2012)	Nov 11 - Sep 12	27 Districts	10 Provinces	832,671
Year 4 (2013)	Oct 12 - Sep 13	28 Districts	12 Provinces	1,210,391
Year 5 (2014)	Oct 13 - Sep 14	23 Districts	11 Provinces	1,374,791
Year 5 (2014) No Cost Extension	Oct 14 - Dec 14	Okapa, Lufa, Madang, Angoram, Maprik, Yangoru Saussi, Wew ak, Aitape Lumi, Nuku and Vanimo Green	EHP, Madang, East Sepik and Sandaun	454,806
Year 6 (2015)		29 Districts	11 Provinces	932,822
Year 7 (2016)		27 Districts	13 Provinces	805,597
Year 8 (2017)	Jan - Mar 2017	Kokopo, Rabaul, Gazelle, Kimbe, Alotau, Samarai Nurua , Esa'ala, Kiriw ina Goodenough	East New Britain, West New Britain, Milne Bay	335,330
	Apr - Jun 2017	Kompiam, Wabag, Wapenamanda, Lagaip Porgera, Tambul Nebliya, Mul Bayer, Dei, Anglimp South Waghi and North Waghi	Enga, Western Highlands and Jiwaka	396,997
	Jul - Sep 2017	Chuave, Kerow agi, Karumui, Goroka, Okapa, Lufa, Henganofi and Obura Wonenara	Chimbu and Eastern Highlands	298,983
	Oct - Dec 2017	Markam, Tiw ae Siassi, Madang, Rai Coast, Bogia, Maprik, Yangoru Saussi, Vanimo Green, Nuku	Morobe, Madang, East Sepik and Sandaun	453,814
New Funding M	lodel			3,223,543
Round Eight				5,763,107
Overall Total Pl	hase One and Phase	Two And NFM		8,986,650

TABLE ONE - LLINs Delivered In PNG Under Co	oordination Of RAM From 2010
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Appendix Two – Malaria In Sandaun Compared With Other Provinces

• Fig.1 shows the decrease of malaria from 2007 to 2015 in all provinces, Fig. 2 shows the actual malaria incidence in Sandaun compared with other provinces and Fig.3 shows annual malaria trends from 2012 to 2016. In Sandaun, it can be seen from Fig.1 that malaria decreased from 2007 to 2015 by only 35% which is one of the lowest reductions in the country alongside Milne Bay and West New Britain. This is also reflected in Fig.2 which shows that the incidence of malaria in Sandaun is 243 per 1000 people which is the highest recorded incidence in the country. Fig. 3 shows that the trend of incidence of malaria in Sandaun since 2012 as compared with other provinces while Fig.4 shows the malaria incidence reported since 2000 against LLIN distributions. The impact against malaria is only clear in Sandaun following the 2011 LLIN distribution. Other than this, there have been no clear reductions of malaria in Sandaun Province. It is not clear why this is the case but may be related to chronic drugs shortages which have been a feature of Sandaun since 2013



Fig.1 – Relative Reduction Of Malaria In Provinces Of PNG



Fig.2 – Reported Malaria Incidence In 2015



Fig. 3 - Reported Malaria Incidence In PNG From 2012 To 2016



Fig. 4 – Malaria Incidence Versus Distribution Of Nets

(Green Arrows represent years of Household Distribution – Small Arrows show distributions in Aitape Lumi (2007), Vanimo Green and Nuku (2008), Telefomin (2009), Vanimo Green, Nuku and Aitape (2011 and 2014) and Telefomin (2012 and 2015).

Appendix Three - Malaria By Altitude

From Fig. 1 and data bases of village populations, it can also be calculated that about 90% of the population of Sandaun live below 1200m altitude where malaria can be considered highly endemic and stable. A further 5% in the zone between 1200-1600m which is considered malaria epidemic in nature with a further 3% living in the zone 1600-2000 metres where it is generally considered only *P. vivax* lives. The remaining 2.0% live in areas above 2000m where malaria transmission is not considered to exist. People living above 2,000 m are found in Telefomin District which was not covered by this particularly distribution.

Fig. 1 Altitude Zone In Sandaun Province



Appendix Four – Other Photographs



Trekking In Amanab



Road and Boat Travel In Green River



Vehicles Getting Stuck In Green River

OTHER PICTURES



Dinghy delivering nets in Saidor (Left) and Happy Customer In Alexischafen (Right)



Allocating Nets In Green River (Left) and Distribution In Pes In Aitape (Right)



Distribution In Green River



Appendix Five - Map Of Sandaun Showing Census Points Of 2000 Census

ANNEX ONE

SANDAUN PROVINCE AITAPE LUMI DISTRICT POPULATION 2017 LLIN DISTRIBUTION SUMMARY SHEET

116	WARD	VILLAGE	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
AITA	PE\LU	MI	87,891	87,891		89,287	16,684	44,110		231	169	7	0	1,473	81	
	-	ERURAL	37,201	38,277		38,762	6,716	19,322		86	61	6	0	821	35	
1	POLTU		1,788	1,662		1,830	371	918	00.04.40	3	3	0	0	119		
		Yakoi Poltulul	855 647	786	Raihu Hos	766 709	146 141	384 345	30.01.18 30.01.18	1	1	0	0	119 0	IBC VANIM IBC VANIM	Road
		Tepir	286	655 221	Raihu Hos Raihu Hos	355	84	189	30.01.18	1	1	0	0	0	IBC VANIM	Road Road
2	TALES	· LAMBU	1,930	221	Rainu nos	2,067	384	1,004	30.01.18	2	2	0	0	24	IDC VAININ	Ruau
2	TALES	Lambu	915	1,048	Raihu Hos	1,047	173	507	03.02.18	1	1	0	0	0		Road
		Tales	1,014	962	Raihu Hos	1,047	211	497	03.02.18	1	1	0	0	24		Road
3	TUMEL	EO ISLAND	1,014	1,322	Rainu 1105	1,020	249	706	03.02.10	2	2	1	0	11		Kudu
0	TOWLE	Tumeleo Is	802	819	Raihu Hos	914	154	451	06.12.17	1	1	0	0	0		Boat
		Tarau Point	504	502	Raihu Hos	503	95	255	06.12.17	1	1	1	0	11		Boat/Road
4	ALI ISL		1,133	910		978	166	487		2	0	0	0	10		
		Ali Is	1,027	910	Raihu Hos	978	166	487	06.12.17	1	0	0	0	10		Boat
		Ali Beach	105	0	Raihu Hos					1						Included under Ali Is
5	SELEO	ISLAND	464	576		616	123	305		3	0	0	0	0		
		Angel Is	198	290	Raihu Hos					1						Included under Seleo Is
		Seleo Is	221	287	Raihu Hos	616	123	305	06.12.17	1	0	0	0	0		Boat
-		Seleo/Negier	46	0	Raihu Hos					1						Included under Seleo Is
6	PORO	SETTLEMENT	1,949	1,872		1,680	239	824		1	1	0	0	0		
		Poro Sett	1,949	1,872	Raihu Hos	1,680	239	824	01.02.18	1	1	0	0	0	IBC VANIM	Road
7	LUPAI		856	703		643	131	328		4	3	0	0	0		
		Karaite	221	331	Raihu Hos	300	50	148	31.01.18	1	1	0	0	0	IBC VANIM	Road
		Lupai	257	372	Raihu Hos	217	50	114	31.01.18	1	1	0	0		IBC VANIM	Road
		Seiyom	43	0	Raihu Hos				04 04 11	1		-			BC VANIM	Abandoned
		Damansara	336	0	Raihu Hos	126	31	66	31.01.18	1	1	0	0		IBC VANIM	Road
8	WAUNI		1,396	1,501		1,381	245	670	04.01.15	3	3	0	0	0	DO 1/11/1	
	-	Siaute	612	537	Raihu Hos	602	97	302	31.01.18	1	1	0	0		IBC VANIM	Road
		Wauningi	282	370	Raihu Hos	280	58 90	129	31.01.18	1	1	0	0	0	IBC VANIM IBC VANIM	Road
	550	Wom	502	594	Raihu Hos	499		239	31.01.18	1	1	-	0	0	IBC VANIM	Road
9	PES	A :	1,783 344	1,767	Decilio	1,677	297 103	746 221	01.02.18	5 1	4 1	0	0	0	IBC VANIM	Deed
		Aisarap Marok	471	398 528	Pes HC Pes HC	614 484	94	236	01.02.18	1	1	0	0	0	IBC VANIM	Road Road
		Pes	229	254	Pes HC Pes HC	266	50	133	01.02.18	1	1	0	0	0	BC VANIM	Road
		Aiserokul	430	351	Pes HC	313	50	156	01.02.18	1	1	0	0	0	IBC VANIM	Road
		Pes Cath.Miss	310	236	Pes HC	010	00	100	01.02.10	1		0	0	0		Included under Pes
10		VOKOU	1,311	1,533	1 63 110	1,552	250	695		3	3	0	0	0		
		Prou	354	704	Raihu Hos	757	100	307	05.12.17	1	1	0	0	0	BC Sandau	Road
		Vokau	822	829	Raihu Hos	564	100	271	05.12.17	1	1	0	0	0		Road
		Aitape H/Sch	135	0	Raihu Hos	231	50	117	05.12.17	1	1	0	0	0		Road
11	LEMIEN		1,454	1,414		1,516	234	736		1	1	0	0	16		
		Lemieng	1,454	1,414	Raihu Hos	1,516	234	736	05.12.17	1	1	0	0	16		Road
12	CHINA	PELI	601	583		540	113	265		4	4	0	0	0		
		Chinapeli	235	387	Raihu Hos	243	50	125	30.01.18	1	1	0	0	0		Road
		Morai	114	0	Raihu Hos	70	11	29	30.01.18	1	1	0	0	0		Road
		Rabago	125	196	Raihu Hos	99	24	48	30.01.18	1	1	0	0	0		Road
		Тере	127	0	Raihu Hos	128	28	63	30.01.18	1	1	0	0	0		Road
13	KIRIEL-	КОРОМ	1,370	1,688		1,555	240	768		4	4	0	0	13		
		Kopom 1	198	473	Raihu Hos	227	48	119	03.02.18	1	1	0	0	13		Road
		Kara	323	369	Raihu Hos	351	64	177	30.01.18	1	1	0	0	0		Road
		Paiawa	716	521	Raihu Hos	734	72	340	30.01.18	1	1	0	0	0		Road
		Kopom 2	133	325	Raihu Hos	243	56	132	04.02.18	1	1	0	0	0		Road
14	PAUP	A.L	1,982	2,051	Dell II	2,297	312	1,125	05 40 17	2	1	0	0	0		D I
		Afua	329 1,653	227 1,824	Raihu Hos Raihu Hos	209 2,088	35 277	99 1,026	05.12.17	1	0	0	0	0	IBC Sandau	Road
1 <i>F</i>	YAKAM	Paup	1,653 1,055	1,824 994	Naillu filos	2,088 974	185	1,026 490	00.12.17	1	1	0	0	0	DO Ganuau	Road
10		Yakamul 1	1,055	994	Raihu Hos	974	185	490	03.12.17	1	1	0	0	0		Road
16	YAKAM		1,055 1,581	994 1,665	1101101105	974 1,736	337	490 875	00.12.17	3	3	0	0	0		Nudu
10	17313/311	yakamul 2	851	884	Raihu Hos	846	175	422	03.12.17	1	1	0	0	0		Road
		Yakamul 3	545	543	Raihu Hos	596	109	300	03.12.17	1	1	0	0	0		Road
		Charok/Tawak	184	239	Raihu Hos	294	53	153	03.12.17	1	1	0	0	0		Road
17	ULAU 1		1,577	1,696		1,844	324	1,013		4	3	0	0	0		
		Chimau	604	620	Ulau HC	665	121	335	03.12.17	1	1	0	0	0		Road
		Ulabarai	627	640	Ulau HC	662	122	328	03.12.17	1	1	0	0	0		Road
		Ulayut	291	437	Ulau HC	517	81	350	03.12.17	1	1	0	0	0		Road
		Ulau 1	54	0	Ulau HC					1						Included Under Ulayut
18	ULAU 2	2	1,429	1,536		1,617	280	798		3	3	0	0	2		
		Deia	306	291	Ulau HC	368	71	184	03.12.17	1	1	0	0	2		Road
		Munai	688	679	Ulau HC	748	126	368	03.12.17	1	1	0	0	0		Road
	<u> </u>	Marubien	435	567	Ulau HC	501	83	246	03.12.17	1	1	0	0	0		Road
19	SUAIN		1,905	1,897	L	1,851	399	938	aa : -	4	2	0	0	0		
		Suain 1	1,179	1,071	Ulau HC	741	150	383	03.12.17	1	1	0	0	0		Road
		Suain 2	662	349	Ulau HC	1,110	249	555	03.12.17	1	1	0	0	0		Road
	<u> </u>	Suain Cm	64	0	Ulau HC					1						Included under Suain 2
~	LAD	Suain 3		477	Ulau HC	700	4.40	201		1	-		_			Included under Suain 2
20	LABUA		728	739	11	786	140	391	02 42 47	3	0	0	0	0		T1.
		Labuai Mihat	440	440	Ulau HC	499	96	244	03.12.17	1	0	0	0		IBC VANIM	Trek
	<u> </u>	Mihet	160	155	Ulau HC	148	25	75	03.12.17	1	0	0	0	0	IBC VANIM IBC VANIM	Trek
I	I	Aruk	128	144	Ulau HC	139	19	72	03.12.17	1	0	0	0	0	DC VANIM	Trek

	1									1						
			Estimated 2017 Data	Estimated		Desulation	House	Nata	Data Of					Houses	Dedia	
			Based On	2017 Data Based On	Health Centre	Population Surveyed	Holds	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	With	Radio Networks	Comment
		VIII 1 405	2000 Census	2014 Data		Guiveyeu	Surveyed	100000	Distribution					Radios	Networks	
	WOMS	VILLAGE	1,162	1,114		1,002	143	513		4	0	0	0	0		
21	VVOIVIS	Asapas	1,162	1,114	Ulau HC	184	44	100	03.12.17	1	0	0	0	0	IBC VANIM	Trek
		Walawiga	165	218	Ulau HC	179	10	89	03.12.17	1	0	0	0	0	IBC VANIM	Trek
		Womsis	431	430	Ulau HC	453	78	228	03.12.17	1	0	0	0	0	IBC VANIM	Trek
		Walum	372	294	Ulau HC	186	11	96	03.12.17	1	0	0	0	0	IBC VANIM	Trek
22	BALUP		553	592		571	85	278		2	2	0	0	0		
		Balup	352	348	Ulau HC	310	47	151	02.12.17	1	1	0	0	0		1 Day Trek
		Malin	201	244	Ulau HC	261	38	127	02.12.17	1	1	0	0	0		1 Day Trek
23	MATAP		420	409		356	72	182		1	0	0	0	0		
		Matapu	420	409	Ulau HC	356	72	182	02.12.17	1	0	0	0	0		1 Day Trek
24		URBAN	7,468	8,045		8,276	1,397	4,267		22	16	5	0	626		
		Aitape West	324	1,498	Raihu Hos					1						Included under other areas
		Aitape East	608	223	Raihu Hos	677		00.4	07.40.47	1	0		0			Included under other areas
		Aitape Vocational	382 51	0	Raihu Hos	577 742	99 114	284 368	07.12.17	1	0	0	0	99 0	IBC VANIM	Road
		Pasis Settlement Airstrip Settlement	51 703	0 1,509	Raihu Hos Raihu Hos	1,132	114	548	07.12.17	1	1	0	0	33	NBC VANIM	Road Road
		Aitape 06	443	1,509	Raihu Hos	488	86	241	07.12.17	1	1	0	0	- 33		Road
		St Anna	650	745	Raihu Hos	684	100	335	07.12.17	1	1	1	0	93		Road
		Fatima Hill Settlement (2)	514	933	Raihu Hos	279	45	140	16.11.17	1	1	0	0	44	NBC Vanimo	Road
		Raihu Hospital Residence	652	463	Raihu Hos	136	50	136	06.12.17	1	1	0	0	0	NBC Vanimo	Road
		Raihu Settlement	955	309	Raihu Hos	254	50	246	06.12.17	1	1	0	0	0	NBC Vanime	Road
		Lumi Settlement	522	000	Raihu Hos					1						Included under other areas
		Tadji Settlement	494	422	Raihu Hos	261	50	128	05.12.17	1	0	0	0	0		Road
		St Ignatious High School	476	1,123	Raihu Hos	559	100	277	16.11.17	1	1	0	0	100	IBC Sandau	Road
		St Anna Hill	395	819	Raihu Hos	325	50	158	16.11.17	1	1	0	0	0		Road
	15	Yili Arop Settlement	300	0	Raihu Hos	310	50	152	16.11.17	1	1	0	0	0	NBC Vanimo	Road
		Pou/Nuku Camp			Raihu Hos	296	50	143	16.11.17	1	1	0	0	0	NBC Vanimo	Road
		Fletcher/Rowells Compound			Raihu Hos	308	50	147	16.11.17	1	1	0	0	31	IBC Sandau	Road
		Labuaina Camp			Raihu Hos	191	28	94	16.11.17	1	1	0	0	0	IBC Sandau	Road
		Sopili /Rere / Keino			Raihu Hos	385	64	195	16.11.17	1	1	0	0	54	IBC Sandau	Road
	20				Raihu Hos	233	50	115	16.11.17	1	1	1	0	32		Road
		Aitape Hill			Raihu Hos	666	100	331	16.11.17	1	1	1	0	91		Road
	22	Fatima Hill (1)			Raihu Hos	450	85	229	16.11.17	1	1	1	0	49		Road
_						44.004	0.070	0.000		54	47	0	-	400		
	KAMNC		12,926	13,015		14,234 1,192	2,973 201	6,986 558		54 5	47 5	0 0	0	126 17	8	
1	KAIVINC		998 224	1,062 282	Lumi HC	306	47	144	30.11.17	1	5	0	0	17		1 Day Trak
		Gutaiya Kamnom	349	323	Lumi HC	366	63	166	30.11.17	1	1	0	0	3		1 Day Trek 1 Day Trek
		Parisko	165	166	Lumi HC	183	33	90	30.11.17	1	1	0	0	2		1 Day Trek
		Tubum	103	137	Lumi HC	160	30	76	30.11.17	1	1	0	0	11		1 Day Trek
		Wiup	133	155	Lumi HC	177	28	82	30.11.17	1	1	0	0	1		1 Day Trek
2	BULWO		316	399	Edition	422	57	185		2	1	0	0	0		1 Bdy Hok
_		Bulwo	209	203	Bulwo	222	30	94	03.12.17	1	1	0	0	0	adio Sandai	Air/Trek
		Galgatu	107	196	Bulwo	200	27	91	28.11.17	1	0	0	0	0	adio Sandai	Air/Trek
3	YIKLAU	j	1,146	1,386		1,641	268	729		3	3	0	0	0		
		Giliauto	184	227	Bulwo	231	39	107	29.11.17	1	1	0	0	0	adio Sandai	Air/Trek
		Wokien	254	327	Bulwo	377	54	171	29.11.17	1	1	0	0	0	adio Sandai	Air/Trek
		Yiklau	708	832	Bulwo	1,033	175	451	29.11.17	1	1	0	0	0	adio Sandai	Air/Trek
4	MAURO	MC	435	572		601	102	285		1	0	0	0	2		
		Maurom	435	572	Kweftim	601	102	285	30.11.17	1	0	0	0	2	adio Sandai	Air/ 2 Day Trek 1 Night
5	KULNO		286	393		376	65	178		1	0	0	0	0		
		Kulnom	286	393	Kweftim	376	65	178	30.11.17	1	0	0	0	0	adio Sandai	Air/2 Day Trek 1 Night
6	KWEFT		258	303		323	61	152		1	1	0	0	24		
_	EDITE	Kweftim	258	303	Kweftim	323	61	152	30.11.17	1	1	0	0	24	adio Sandai	Air/ 3 days trek 2 nights
7	ERITEI		425	368	Vahil	332 250	85 61	181 134	30 11 17	2	1	0	0	2 1		A hours tr-l-
		Eritei 2	296 128	264 105	Yebil Yebil	250 82	61 24	134 47	30.11.17 30.11.17	1	1	0	0	1		4 hours trek
c	TAUTE	Twaite	128 1,088	105 868	TEDI	82 1,127	24 225	47 550	50.11.17	4	4	0	0	0		4 hours trek
c	TRUTE	Boru'um	119	80	Lumi HC	119	225	57	02.12.17	1	1	0	0	0		2 Hr Trek
	1	Lau'um	224	197	Lumi HC	268	62	148	02.12.17	1	1	0	0	0		4 Hr Trek
	1	Taute	438	304	Lumi HC	369	76	186	05.12.17	1	1	0	0	0		4 Hr Trek
		Wilkili	308	288	Lumi HC	371	62	159	02.12.17	1	1	0	0	0		4 Hr Trek
ç	MAUI	TALBIBI	1,470	1,219		1,363	304	701		4	4	0	0	22		
		Klelbuf	216	147	Lumi HC	160	35	80	01.12.17	1	1	0	0	0		4 Hr Trek
		Maui	507	424	Lumi HC	482	120	252	04.12.17	1	1	0	0	21		Road
		Talbibi	542	455	Lumi HC	539	109	277	01.12.17	1	1	0	0	0		5Hr Trek
		Wabuf	206	193	Lumi HC	182	40	92	04.12.07	1	1	0	0	1		Road
10	LUMI	A.1.	994	909		897	217	456	05 (0) =	4	3	0	0	2		
		Ali	231	218	Lumi HC	240	48	128	05.12.17	1	0	0	0	0		Road
	1	Lumi Village	433	341	Lumi HC	355	79	171	06.12.17	1	1	0	0	0		Road
		Otemgi	258	211 138	Lumi HC	224	74	117	04.12.17	1	1	0	0	2		Road
					Lumi HC	78	16 265	40 623	04.12.17	1 7	1 7	0	0	0 22		Road
	OUTE	Lumi Station	72			4 4 9 9		623			1	0				
11	OUTE	Lumi Station	1,241	1,083		1,188		104	02 12 17	- 1	1	0				A Lie Teals
11	OUTE	Lumi Station Flobu'um	1,241 191	1,083 187	Lumi HC	243	54	124 32	02.12.17	1	1	0	0	13		4 Hr Trek
11	OUTE	Lumi Station Flobu'um Mimbite	1,241 191 140	1,083 187 70	Lumi HC Lumi HC	243 55	54 18	32	03.12.17	1	1	0	0	13 0		4 Hr Trek
11	OUTE	Lumi Station Flobu'um Mimbite Metiaite	1,241 191 140 81	1,083 187 70 149	Lumi HC Lumi HC Lumi HC	243 55 139	54 18 27	32 68	03.12.17 02.12.17	1 1	1 1	0	0 0 0	13 0 8		4 Hr Trek 4 Hr Trek
11	OUTE	Lumi Station Flobu'um Mimbite Metiaite Naraite	1,241 191 140 81 115	1,083 187 70 149 71	Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85	54 18 27 26	32 68 50	03.12.17 02.12.17 03.12.17	1 1 1	1 1 1	0 0 0	0 0 0	13 0 8 0		4 Hr Trek 4 Hr Trek 4 Hr Trek
11	OUTE	Lumi Station Flobu'um Mimbite Metiaite Naraite Sapte	1,241 191 140 81	1,083 187 70 149 71 80	Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85 80	54 18 27	32 68	03.12.17 02.12.17 03.12.17 02.12.17	1 1	1 1	0	0 0 0	13 0 8		4 Hr Trek 4 Hr Trek 4 Hr Trek 3 Hr Trek
11	OUTE	Lumi Station Flobu'um Mimbite Metiaite Naraite	1,241 191 140 81 115 72	1,083 187 70 149 71	Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85	54 18 27 26 19	32 68 50 37	03.12.17 02.12.17 03.12.17	1 1 1 1	1 1 1 1	0 0 0 0	0 0 0 0	13 0 8 0 0		4 Hr Trek 4 Hr Trek 4 Hr Trek
	OUTE	Lumi Station Flobu'um Mimbite Metiaite Naraite Sapte Oute Tauwitei	1,241 191 140 81 115 72 459	1,083 187 70 149 71 80 369	Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85 80 436	54 18 27 26 19 90	32 68 50 37 225	03.12.17 02.12.17 03.12.17 02.12.17 04.12.17	1 1 1 1 1	1 1 1 1 1	0 0 0 0	0 0 0 0 0	13 0 8 0 0 0		4 Hr Trek 4 Hr Trek 4 Hr Trek 3 Hr Trek 3 Hr Trek 4 Hr Trek
		Lumi Station Flobu'um Mimbite Metiaite Naraite Sapte Oute Tauwitei	1,241 191 140 81 115 72 459 183	1,083 187 70 149 71 80 369 157	Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85 80 436 150	54 18 27 26 19 90 31	32 68 50 37 225 87	03.12.17 02.12.17 03.12.17 02.12.17 04.12.17	1 1 1 1 1 1 1	1 1 1 1 1 1	0 0 0 0 0	0 0 0 0 0 0 0	13 0 8 0 0 0 0 1		4 Hr Trek 4 Hr Trek 4 Hr Trek 3 Hr Trek 3 Hr Trek 4 Hr Trek
		Lumi Station Flobu'um Mimbite Metiaite Naraite Sapte Oute Tauwitei E	1,241 191 140 81 115 72 459 183 2,000	1,083 187 70 149 71 80 369 157 1,932	Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85 80 436 150 2,029	54 18 27 26 19 90 31 484	32 68 50 37 225 87 1,022	03.12.17 02.12.17 03.12.17 02.12.17 04.12.17 01.12.17	1 1 1 1 1 1 7	1 1 1 1 1 1 7	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	13 0 8 0 0 0 1 21		4 Hr Trek 4 Hr Trek 4 Hr Trek 3 Hr Trek 4 Hr Trek 4 Hr Trek 4 Hr Trek
		Lumi Station Flobu'um Mimbite Metiaite Naraite Sapte Oute Tauwitei E Milliom	1,241 191 140 81 115 72 459 183 2,000 242	1,083 187 70 149 71 80 369 157 1,932 243	Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85 80 436 150 2,029 244	54 18 27 26 19 90 31 484 50	32 68 50 37 225 87 1,022 116	03.12.17 02.12.17 03.12.17 02.12.17 04.12.17 01.12.17 03.12.17	1 1 1 1 1 1 7 1	1 1 1 1 1 1 7 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	13 0 8 0 0 0 1 21 0		4 Hr Trek 4 Hr Trek 3 Hr Trek 4 Hr Trek 4 Hr Trek 4 Hr Trek Road
		Lumi Station Flobu'um Mimbite Metiaite Naraite Sapte Oute Tauwitei E Milliom Orutei	1,241 191 140 81 115 72 459 183 2,000 242 226	1,083 187 70 149 71 80 369 157 1,932 243 217	Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC Lumi HC	243 55 139 85 80 436 150 2,029 244 205	54 18 27 26 19 90 31 484 50 49	32 68 50 37 225 87 1,022 116 101	03.12.17 02.12.17 03.12.17 02.12.17 04.12.17 01.12.17 03.12.17 03.12.17	1 1 1 1 1 7 1 1 1	1 1 1 1 1 1 7 1 1 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	13 0 8 0 0 0 1 21 0 3		4 Hr Trek 4 Hr Trek 3 Hr Trek 4 Hr Trek 4 Hr Trek 4 Hr Trek Road Road

III AGE	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
ILLAGE umi Dist.Hd/Quat.	186	179	Lumi HC	142	23	70	04.12.17	1	1	0	0	11		Road
umi High Sch	68	84	Lumi HC	95	18	46	03.12.17	1	1	0	0	1		Road
•	1,297	1,318		1,451	371	744		7	7	0	0	11		
ien	161	204	Lumi HC	223	61	110	03.12.17	1	1	0	0	0		Road
arate	496	450	Lumi HC	498	137	265	04.12.17	1	1	0	0	0		Road/(Trek-Polopu)
eibam	120	133	Lumi HC	148	42	72	10.12.17	1	1	0	0	1		Road
ibite	219	175	Lumi HC	197	50	106	10.12.17	1	1	0	0	2		Road
uare	150	167	Lumi HC	146	32	70	10.12.17	1	1	0	0	6		Road
aipli	89	105	Lumi HC	140	26	71	03.12.17	1	1	0	0	0		Trek
orkom	63	85	Lumi HC	99	23	50	03.12.17	1	1	0	0	2		Trek
	364	329		331	69	163		1	1	0	0	0		
ainde	364	329	Fatima HC	331	69	163	10.12.17	1	1	0	0	0		3 Hr Trek
	606	873		961	199	459		5	3	0	0	3		
ingi	222	204	Lumi HC	194	37	98	10.12.17	1	0	0	0	0		1 Day Trek
labul	122	135	Lumi HC	179	42	87	09.12.17	1	1	0	0	0		1 Day Trek
ange	183	200	Lumi HC	234	55	109	09.12.17	1	1	0	0	0		1 Day Trek
ipai	79	108	Lumi HC	104	24	50	09.12.17	1	1	0	0	0		1 Day Trek
bseim		226	Lumi HC	250	41	115	10.12.17	1	0	0	0	3		1 Day Trek
RURAL	22,966	24,665		23,474	4,239	11,470		35	22	0	0	81	0	
	892	908		1,042	195	489		1	1	0	0	0		
imas	892	908	Olbrum HC	1,042	195	489	24.11.17	1	1	0	0	0		Boat
SISSANO)	1,284	1,996		2,274	379	1,079		4	4	0	0	0		
msor	448	997	Olbrum HC	1,032	149	482		1	1	0	0	0		Boat
lainya (Sissano)	836	583	Olbrum HC	131	30	63	02.12.17	1	1	0	0	0		Boat
aiynbrum Log Point		416	Olbrum HC	552	100	263	02.12.17	1	1	0	0	0		Boat
aiynbrum			Olbrum HC	559	100	271	02.12.17	1	1	0	0	0		
DN (SISSANO)	1,291	1,392		1,312	231	631		1	0	0	0	1		
laindron (Sissano)	1,291	1,392	Olbrum HC	1,312	231	631		1	0	0	0	1		Boat
	2,973	2,490		2,471	493	1,187		1	0	0	0	20		
arupu	2,973	2,490	Olbrum HC	2,471	493	1,187		1	0	0	0	20		Boat
	2,020	2,015		1,836	322	875		1	1	0	0	0		
rop 1	2,020	2,015	Olbrum HC	1,836	322	875	01.02.18	1	1	0	0	0		Boat
	906	1,036		1,046	180	484		1	1	0	0	0		
rop 2	906	1,036	Olbrum HC	1,046	180	484	01.02.18	1	1	0	0	0		Boat
	2,093	2,612		2,997	444	1,436		3	3	0	0	0		
msor (Malol)	726	975	Bokamo HC	889	144	418	02.02.18	1	1	0	0	0		Road
lainyeu (Malol)	698	794	Bokamo HC	1,254	150	603	02.02.18	1	1	0	0	0		Road
ian (Malol)	668	842	Bokamo HC	854	150	415	02.02.18	1	1	0	0	0		Road
N	1,860	1,567		1,469	289	701		2	2	0	0	0		
indrin	1,235	1,018	Bokamo HC	979	189	466	02.02.18	1	1	0	0	0		Road
anyapin	626	549	Bokamo HC	490	100	235	02.02.18	1	1	0	0	0		Road
	1,167	1,142		1,071	189	505		1	0	0	0	0		
ipokon	1,167	1,142	Bokamo HC	1,071	189	505	03.02.18	1	0	0	0	0		Road
	578	783		716	149	339		1	1	0	0	0		
engian	578	783	Pes HC	716	149	339	01.02.18	1	1	0	0	0		Road
	492	462		488	91	229		1	1	0	0	0		
oiniri	492	462	Pes HC	488	91	229	01.02.18	1	1	0	0	0		Road
E	395	437		441	76	207		1	0	0	0	0		
/alwale	395	437	Pes HC	441	76	207	31.01.18	1	0	0	0	0		Road
	357	409		428	88	204		1	1	0	0	0		
omei	357	409	Pes HC	428	88	204	31.01.18	1	1	0	0	0		Road
	645	920		600	110	286		1	0	0	0	0		
arera	645	920	Pes HC	600	110	286	31.01.18	1	0	0	0	0		Road
	425	582		185	119	272		2	1	0	0	0		
aiye	188	296	Pes HC	185	119	272	18.01.18	1	1	0	0	0		Road/Dist,2017
arandu	237	285	Pes HC					1						Included under Kaiye
	267	252		348	50	166		1	0	0	0	30		
lafoka	267	252	Olbrum HC	348	50	166	18.01.18	1	0	0	0	30		Road
	555	647		603	85	289	L	2	1	0	0	0		
lori	366	327	Olbrum HC	359	50	172	18.01.18	1	1	0	0	0		Road/Dist,2017
avamui	189	320	Olbrum HC	244	35	117	18.01.18	1	0	0	0	0		Road/Dist,2017
	173	293		208	39	100		1	0	0	0	0		
lumuru	173	293	Olbrum HC	208	39	100	18.01.18	1	0	0	0	0		Road
	910			1,089	191	520	40.01.15	1	1	0	0	0		_
umo	910	1,164	Olbrum HC	1,089	191	520	18.01.18	1	1	0	0	0		Road
	1,100	1,269		811	166	492	40.01.15	2	0	0	0	15		_
amo	1,100	1,119	Olbrum HC	685	132	432	18.01.18	1	0	0	0	12		Road
J Base Camp		150	Olbrum HC	126	34	60	18.01.18	1	0	0	0	3		Road
	673	738	0"	794	182	381	00.01.10	1	1	0	0	0		
ou	673	738	Olbrum HC	794	182	381	28.01.18	1	1	0	0	0		Road
	482	472	A	477	65	226	40.01.15	1	1	0	0	2		_
arai	482	472	Olbrum HC	477	65	226	18.01.18	1	1	0	0	2		Road
	1,151	654	0"	338	52	164	40.04.10	2	1	0	0	10		
ainuk	364	312	Olbrum HC	338	52	164	18.01.18	1	1	0	0	10		Road
pp Base Camp	787	342	Olbrum HC	100		0.00		1		-	-	-		Road
	275	428		430	54	208		2	1	0	0	3		
msuku	275	428	Olbrum HC				10	1						Ward Name
uindu			Olbrum HC	430	54	208	18.01.18	1	1	0	0	3		Road
URAL	14,797			12,817	2,756	6,332		56	39	1	0	445	38	
	701	513		519	90	251		4	3	0	0	3		
ara	158	159	Lumi HC2	115	16	53	08.12.17	1	1	0	0		adio Sandai	2 Day Trek
abore 1	209	234	Lumi HC2	261	44	129	08.12.17	1	1	0	0		adio Sanda	2 Day Trek
abore 2	262	120	Lumi HC2	143	30	69	08.12.17	1	1	0	0	0	adio Sandai	2 Day Trek 2 Day Trek
abore 2 abore 2		1 209 2 262	1 209 234 2 262 120	209 234 Lumi HC2 2 262 120 Lumi HC2	1 209 234 Lumi HC2 261 2 262 120 Lumi HC2 143	1 209 234 Lumi HC2 261 44 2 262 120 Lumi HC2 143 30	209 234 Lumi HC2 261 44 129 2 262 120 Lumi HC2 143 30 69	209 234 Lumi HC2 261 44 129 08.12.17 2 262 120 Lumi HC2 143 30 69 08.12.17	209 234 Lumi HC2 261 44 129 08.12.17 1 2 262 120 Lumi HC2 143 30 69 08.12.17 1	1 209 234 Lumi HC2 261 44 129 08.12.17 1 1 2 262 120 Lumi HC2 143 30 69 08.12.17 1 1	1 209 234 Lumi HC2 261 44 129 08.12.17 1 1 0 2 262 120 Lumi HC2 143 30 69 08.12.17 1 1 0	1 209 234 Lumi HC2 261 44 129 08.12.17 1 1 0 0 2 262 120 Lumi HC2 143 30 69 08.12.17 1 1 0 0	1 209 234 Lumi HC2 261 44 129 08.12.17 1 1 0 0 0 2 262 120 Lumi HC2 143 30 69 08.12.17 1 1 0 0 0	1 209 234 Lumi HC2 261 44 129 08.12.17 1 1 0 0 adio Sanda 2 262 120 Lumi HC2 143 30 69 08.12.17 1 1 0 0 0 adio Sanda

			Fatimated							1						
			Estimated 2017 Data	Estimated			House							Houses		
			Based On	2017 Data Based On	Health Centre	Population Surveyed	Holds	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	With	Radio Networks	Comment
			2000	2014 Data		Surveyed	Surveyed	Issued	Distribution					Radios	Networks	
		VILLAGE	Census													
2	MOLMC		570	463	1	467 148	98	205	00 40 47	3	3	0	0	0	adia Canala	
		Wondu	66 415	113 245	Lumi HC2	148	29 40	61 85	08.12.17 08.12.17	1	1	0	0	0	adio Sandaı adio Sandaı	2 Day Trek
		Molmo Siama	415 89	245	Lumi HC2 Lumi HC2	190	29	59	08.12.17	1	1	0	0	0	adio Sandai adio Sandai	2 Day Trek 2 Day Trek
3	PELAMA		6 <u>9</u> 621	604	Lumi HC2	632	106	309	00.12.17	4	3	0	0	51	aulo Saliuai	2 Day Hek
5		Mauwil	270	204	Kweftim2	260	50	137	30.11.17	1	1	0	0	0	adio Sandai	Air/3 Day Trek 2 Nights
		Pelama	188	156	Kweftim2	186	28	86	30.11.17	1	1	0	0		adio Sandai	Air/4 Day Trek 3 Nights
		Yokman	56	115	Kweftim2					1		-	-		adio Sandai	Air/4 Day Trek 3 Nights
		Mitini	107	129	Kweftim2	186	28	86	30.11.17	1	1	0	0		adio Sandai	Air/4 Day Trek 3 Nights
4	KAKOI		850	504		642	143	316		4	2	0	0	32		, ,
		Kakoi	372	142	Yebil2	235	47	115	22.11.17	1	1	0	0	8	adio Sandai	Air/9hr Trek
		Kwatim	166	125	Yebil2	144	39	70	22.11.17	1	0	0	0	16	adio Sandai	Air/9hr Trek
		Kwamtum	119	98	Yebil2	113	26	54	23.11.17	1	0	0	0	8	adio Sandai	Air/9 hr Trek
		Timeni	193	139	Yebil2	150	31	77	30.11.17	1	1	0	0	0	adio Sandai	Air/9hr Trek
5	YEBIL		1,212	953		993	200	489		4	4	0	0	25		
		Talou	143	134	Yebil2	145	34	75	30.11.17	1	1	0	0	0	adio Sandai	Air/7-8 hrTrek
		Kalingam	176	163	Yebil2	168	32	79	30.11.17	1	1	0	0	7	adio Sandai	Air/7 hr Trek
		Urutei	97	80	Yebil2	68	14	32	30.11.17	1	1	0	0	0	adio Sandai	Air/ 5hr Trek
		Yebil	795	576	Yebil2	612	120	303	30.11.17	1	1	0	0	18	adio Sandai	Air/3 hr Trek
6	INEBU		1,752	1,500		1,443	265	651		4	2	0	0	47		
		Alkula	398	313	Lumi HC2	330	68	149	25.11.17	1	1	0	0	24	adio Sandai	1 Day Trek
		Inebu	859	715	Lumi HC2	715	131	327	08.12.17	1	1	0	0	0	adio Sandai	1 Day Trek
		Piako	306	306	Lumi HC2	214	40	97	20.11.17	1	0	0	0	21	adio Sandai	1 Day Trek
		Kalema	188	167	Lumi HC2	184	26	78	19.11.17	1	0	0	0	2	adio Sandai	1 Day Trek
/	MOKAI	14 - 1 -	626	596	1	757	158	364	00 40 47	4	3	0	0	31	adia Canada	1 D. T. I
		Kalau	79	122	Lumi HC2	164 209	26 41	73 102	08.12.17 08.12.17	1	1	0	0	18 3	adio Sandaı adio Sandaı	1 Day Trek
		Mokai	234 100	124 102	Lumi HC2	129	24	60	06.12.17	1	1	0	0	0	adio Sandai adio Sandai	1 Day Trek
		Wantipi	212	247	Lumi HC2	255	67	129	15.11.17	1	0	0	0	10	adio Sandai adio Sandai	1 Day Trek
0	KARAIT	Wuguble	1,320	1,010	Lumi HC2	1,049	285	556	13.11.17	6	6	0	0	128	aulo Saliuai	1 Day Trek
0		Amaitem	207	139	Lumi HC2	150	36	72	06.12.17	1	1	0	0	120	adio Sandai	Road
		Karaitem	394	203	Lumi HC2	198	50	101	02.12.17	1	1	0	0	26	adio Sandai adio Sandai	Road
		Maiwetem	224	181	Lumi HC2	198	54	113	19.11.17	1	1	0	0	50	adio Sandai adio Sandai	Road
		Pai	240	218	Lumi HC2	242	96	147	06.12.17	1	1	0	0	42	adio Sandai	Road
		Tofungu	161	173	Lumi HC2	169	28	79	05.12.17	1	1	0	0	0	adio Sandai	Road
		Wai'eli	94	96	Lumi HC2	92	21	44	05.12.17	1	1	0	0	0	adio Sandai	Road
9	MINATE		1.447	1,157	Edition	1,131	250	574		6	6	0	0	26		Roda
	-	Minate 1	374	302	Lumi HC2	207	43	104	01.12.17	1	1	0	0	4	adio Sandai	Road/4 Hr Trek
		Su Goite	201	93	Lumi HC2	108	14	49	01.12.17	1	1	0	0	2	adio Sandai	Road/4 Hr Trek
		Yongite	384	358	Lumi HC2	358	75	183	01.12.17	1	1	0	0	4	adio Sandai	Road/4 Hr Trek
		Wolwalem	155	131	Lumi HC2	122	24	61	01.12.17	1	1	0	0	2	adio Sandai	Road/4 Hr Trek
		Soulete	168	150	Lumi HC2	176	44	90	01.12.17	1	1	0	0	14	adio Sandai	Road/4 Hr Trek
		Waunulu	166	123	Lumi HC2	160	50	87	01.12.17	1	1	0	0	0	adio Sandai	Road/4 Hr Trek
10	SIBOTE		1,139	985		1,210	249	611		5	0	0	0	6		
		Orweb/Eritei 1	137	163	Fatima HC2	285	53	141	10.12.17	1	0	0	0	1		4 Hr Trek
		Rawatei	349	281	Fatima HC2	270	63	135	10.12.17	1	0	0	0	2		4 Hr Trek
		Sibote	226	174	Fatima HC2	220	45	113	09.12.17	1	0	0	0	0		4 Hr Trek no white copies!
		Sigaite	318	241	Fatima HC2	318	62	160	10.12.17	1	0	0	0	0		4 Hr Trek
		Wagoite	110	125	Fatima HC2	117	26	62	10.12.17	1	0	0	0	3		4 Hr Trek
11	MIWAU		835	780		764	185	376		2	1	0	0	15		
		Miwaute	512	480	Fatima HC2	436	113	220	09.12.17	1	0	0	0	8		2 Hr Trek
		Wilbeite	323	300	Fatima HC2	328	72	156	10.12.17	1	1	0	0	7		2 Hr Trek
12	WABUT		692	515		712	153	353	10.17.17	2	2	0	0	45		
		Sarboute	234	168	Fatima HC2	166	40	86	10.12.17	1	1	0	0	4		2 Hr Trek
		Wabute	458	348	Fatima HC2	546	113	267	10.12.17	1	1	0	0	41		2 Hr Trek
13	KUPUO		1,148	795	E-#	847	211	435	10 40 17	3	2	0	0	5		A 11 T - 1
		Kupuom	430	356	Fatima HC2	363 385	86 96	185	10.12.17	1	0	0	0	1		1 Hr Trek
		Welium Fatima Cath Miss	652	360	Fatima HC2			197	10.12.17	1	1	0	0			1 Hr Trek
		Fatima Cath.Miss.	66	80	Fatima HC2	99	29	53	10.12.17	1 2	1	0	0	3		1 Hr Trek
			950 341	805	Eatima LICC	798	158 65	405 136	09.12.17	2	0	0	0	27		4 Lie Tecli
14	WIGOTI	Tolgoto		267	Fatima HC2	265		136		1	0	0	0	27		1 Hr Trek
14		Tolgete		500	Entime LICC	500										
		Wigote	609	538	Fatima HC2	533 853	93 205	269	10.12.17							1 Hr Trek
	KUMNA	Wigote TE	609 935	752		853	205	437		3	2	1	0	4		
	KUMNA	Wigote	609		Fatima HC2				10.12.17 10.12.17 10.12.17							Road

ANNEX TWO

SANDAUN PROVINCE NUKU DISTRICT POPULATION 2017 LLIN DISTRIBUTION SUMMARY SHEET

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
NUKL			74,156	74,156		75,099	15,372	37,802		176	175	0	0	263	42	
	ASE (N SELEP	UKU CENTRAL) RURAL	35,092 830	34,206 802		34,932 782	7,613 141	18,063 379		63 1	62 1	0	0	0	0	
	OLLLI	Seleput	830	802	Nuku HC	782	141	379	04.12.17	1	1	0	0	0		2 Hr Trek
2	NUKU		1,539	1,638		1,569	375	810		2	2	0	0	0		
		Nuku	1,155	1,031	Nuku HC	1,094	251	563	28.11.17	1	1	0	0	0		Road
3	MANSI	Nuku Station	383 1,030	607 922	Nuku HC	475 979	124 224	247 491	28.11.17	1 2	1 2	0	0	0		Road
5	MANOC	Mansuku	957	745	Nuku HC	795	174	391	28.11.17	1	1	0	0	0		Road
		Wati Cath.Miss.	73	177	Nuku HC	184	50	100	28.11.17	1	1	0	0	0		Road
4	YIMINU		852	735		742	200	431		1	1	0	0	0		
E	YIFKIN	Yimunum	852 1,083	735 1,044	Nuku HC	742 1,048	200 247	431 493	28.11.17	1 1	1 1	0	0	0		Road
5		Yifkindu	1,083	1,044	Nuku HC	1,048	247	493	28.11.17	1	1	0	0	0		Road
6	WILWI		1,634	1,361		1,302	281	693		1	1	0	0	0		
		Wilwil	1,634	1,361	Nuku HC	1,302	281	693	28.11.17	1	1	0	0	0		Road
7	KAFLE	Kafla A	2,407	2,104 1,254	Kafle HC	2,052	459 247	1,113 626	00 44 47	3 1	3 1	0	0	0		Deed
		Kafle 1 Kafle 2	1,366 1,041	1,254	Kafle HC	1,093 886	199	450	29.11.17 29.11.17	1	1	0	0	0		Road Road
		Kafle Station	1,011		Kafle HC	73	13	37	29.11.17	1	1	0	0	0		New Inclusion
8	KAFLE		1,107	1,184		1,201	300	610		1	1	0	0	0		
_		Kafle 3	1,107	1,184	Kafle HC	1,201	300	610	29.11.17	1	1	0	0	0		Road
9	ARKOS	SAME 1 Arkosame 1	2,380 2,380	768 768	Kafle HC	754 754	194 194	404 404	29.11.17	1 1	1	0	0	0		Road
10		SAME 2	2,380 616	1,946		2,090	397	404 1,059	23.11.11	2	2	0	0	0		Nuau
		Arkosame 2	616	615	Kafle HC	805	147	425	29.11.17	1	1	0	0	0		Road
				1,331	Kafle HC	1,285	250	634	29.11.17	1	1	0	0	0		
11	HAMBA		2,075	2,032		2,861	579	1,470		4	4	0	0	0		
		Hambasama Sepitala	1,287 730	1,068 964	Nuku HC Nuku HC	1,486 1,233	300 250	753 645	29.11.17 29.11.17	1	1	0	0	0		Road Road
		Nukuanglo	40	0	Nuku HC	44	12	22	29.11.17	1	1	0	0	0		Road
		Nuku High	18	0	Nuku HC	98	17	50	29.11.17	1	1	0	0	0		Road
12	ANGAF	RA	1,877	1,630		1,714	456	922		5	5	0	0	0		
		Angara	487	381	Seim HC	395	114	214	03.12.17	1	1	0	0	0		Road
		Aterum Awes	321 279	266 162	Seim HC Seim HC	328 192	92 50	174 100	03.12.17 03.12.17	1	1	0	0	0		Road Road
		Poklo	354	445	Seim HC	395	100	205	03.12.17	1	1	0	0	0		Road
		Sabiga	437	376	Seim HC	404	100	229	03.12.17	1	1	0	0	0		Road
13	ABIGU		2,452	2,678		2,488	592	1,341		5	5	0	0	0		
		Abigu	409 487	443 489	Seim HC Seim HC	346 500	100 150	200 292	04.12.17	1	1	0	0	0		Road
		Apduwano Mambu	371	762	Seim HC	503	117	292	04.12.17 03.12.17	1	1	0	0	0		Road Road
		Yiriwandi	1,139	791	Seim HC	866	175	457	03.12.17	1	1	0	0	0		Road
		Seim Cath.Miss	47	193	Seim HC	273	50	140	04.12.17	1	1	0	0	0		Road
14	KEMBI		1,121	1,076	0 1 110	1,056	224	554		2	2	0	0	0		
		Kembiem Usitamo	416 706	449 628	Seim HC Seim HC	400 656	80 144	214 340	04.12.17 05.12.17	1	1	0	0	0		Road Road
15	HAMBA		1,711	1,498	Seining	1,432	269	712	03.12.17	2	2	0	0	0		Ruau
-		Hambangri	1,163	1,034	Seim HC	994	169	495	05.12.17	1	1	0	0	0		
		Sulunuku	548	464	Seim HC	438	100	217	04.12.17	1	1	0	0	0		Road
16	ENGIE		914	928 928	Caim LLC	1,020	223	478	05 44 47	2	2	0	0	0		Deed
		Engiep Imbiyip	334 580	928	Seim HC Seim HC	359 661	91 132	170 308	25.11.17 24.11.17	1	1	0	0	0		Road Road
17	WOMB		1,389	1,132		1,309	319	662		3	3	0	0	0		
		Kalem	293	0	Seim HC	340	71	168	24.11.17	1	1	0	0	0		Road
		Teremes	379	0	Seim HC	315	50	147	27.11.17	1	1	0	0	0		Road
18	YIMIN	Wombiu	717 580	1,132 909	Seim HC	654 578	198 109	347 385	24.11.17	1 2	1 1	0	0	0		Road
10		Bel	150	173	Nuku HC	013	103	505		1		v	Ť	Ū		included under Yimin
		Yimin	430	735	Nuku HC	578	109	385	28.11.17	1	1	0	0	0		2 Day Trek
19	NAU' A		870	948		872	151	443		3	3	0	0	0		
		Nau'alu Wurumulu	303 359	269 503	Nuku HC Nuku HC	289 394	50 63	159 187	28.11.17 28.11.17	1	1	0	0	0		2 Day Trek 2 Day Trek
		Fuspari	208	175	Nuku HC Nuku HC	394 189	38	187 97	28.11.17	1	1	0	0	0		2 Day Trek 2 Day Trek
20	GAMU	, 	1,068	1,069		1,360	205	668		2	2	0	0	0		
_		Gamu	611	565	Nuku HC	780	111	376	29,11,17	1	1	0	0	0		1 Day Trek
<u>.</u>		Ulap	458	503	Nuku HC	580	94	292	29,11,17	1	1	0	0	0		1 Day Trek
21	SEMEN	NGLA Semengla	1,209 483	1,292	Nuku HC	1,268 292	320 70	635 148	25.11.17	2 1	2 1	0	0	0		1 Day Trek
		Wulbowe	725	1,292	Nuku HC	976	250	487	25.11.17	1	1	0	0	0		1 Day Trek
22	TUKIN	ARO	909	1,137		1,207	250	611		1	1	0	0	0		•
		Tukinaro	909	1,137	Nuku HC	1,207	250	611	25.11.17	1	1	0	0	0		1 Day Trek
23	UNDU	Llodu	1,178 217	1,288	Nobello	1,275	263	645 257	20 11 17	3	3	0	0	0		Trak
		Undu Vei	317 272	289 294	Nuku HC Nuku HC	543 70	100 13	257 34	29,11,17 29,11,17	1	1	0	0	0		Trek
		Yimut	588	705	Nuku HC	662	150	354	29,11,17	1	1	0	0	0		Trek
24	YINAU	WI	1,362	1,486		1,481	292	775		4	4	0	0	0		
		Waspom Porwate	182 232	219	Nuku HC	224	43	122	29.11.17	1	1	0	0	0		1 Day Trek
			222	206	Nuku HC	199	33	99	29.11.17	1	1	0	0	0		1 Day Trek

Wrammaru 447 988 Wassi MC 600 100 200 201 PLAMA Read/20 MT 4 VADACAS 498 748 440 74 226 27.11.7 1 1 0 0 11 PLAMA Read/20 MT 1 Varaingino 446 848 440 78 226 27.11.7 1 1 0 0 0 PLAMA Read/20 MT 5 UADUN 744 784 71.11 1 1 0 0 0 PLAMA Read/20 MT 5 UADUN 744 784 784 71.11 1 1 0 0 0 PLAMA Read/20 MT 5 UADUN 744 784 784 784 782 786 782 781 782 786 782 781 782 786 782 781 781 78 782 786 782 781 781 781 78	LG	WARD	VILLAGE	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
B D															-		•
Image Image <t< td=""><td>25</td><td></td><td></td><td></td><td></td><td>Nuku HC</td><td></td><td></td><td></td><td>29.11.17</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>1 Day Trek</td></t<>	25					Nuku HC				29.11.17					-		1 Day Trek
Image <	25	IVIAIIVIA				Nuku HC				28.11.17		-	-	-	-		1 Day Trek
Bit Bit </td <td></td> <td>•</td>																	•
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Z/PAUL 1961 1961 1961 1961 297 2 2 2 1 0													-	-	-		,
Image Image <t< td=""><td>27</td><td>MUKILI</td><td></td><td></td><td></td><td>Huild He</td><td></td><td></td><td></td><td>2011111</td><td></td><td></td><td></td><td></td><td></td><td></td><td>i bay non</td></t<>	27	MUKILI				Huild He				2011111							i bay non
Normal				664	520	Nuku HC	396	100	215	28.11.17	1	1	0	0	0		1 Day Trek
Dependencing 1964 1964 1964 196 196 196			Yulem	377	241	Nuku HC	263	50	134	28.11.17	1	1	0	0	0		1 Day Trek
IDVAUU 1560 1570 364 168 364 360 36																10	
Non-Y All Solution S																42	
Bail Bail< Bail Bail <		NOVAL				Nuku HC2				30.11.17			-	-	-		Road
Interview 400 Number 400 Number Number Add Number Number Number Number															0		
Decomponent Des Des <thdes< th=""> Des <thdes< th=""> <thde< td=""><td></td><td></td><td>Werangyuwok</td><td>416</td><td>455</td><td>Nuku HC2</td><td>465</td><td>100</td><td>236</td><td>30.11.17</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td></td><td>Road</td></thde<></thdes<></thdes<>			Werangyuwok	416	455	Nuku HC2	465	100	236	30.11.17	1	1	0	0	0		Road
Noncord YMA State YMA Field YMA Field State YMA Field YMA						Nuku HC2				30.11.17							Road
Seng 198 <td>2</td> <td>MONA</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	2	MONA											-				
Nerview 1.58 1.64 Nerview 1.693 2 <td></td>																	
Image Supplicit	2	NANCI				wasisi HC				∠0.11.1 <i>1</i>						FM,AM	Road
Nongir 447 647 658 6514 670 630 71117 71 </td <td>3</td> <td>INANGE</td> <td></td> <td></td> <td></td> <td>Wasisi HC</td> <td></td> <td></td> <td></td> <td>26 11 17</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ENANA</td> <td>Road/20 Min Trak</td>	3	INANGE				Wasisi HC				26 11 17						ENANA	Road/20 Min Trak
Non-man Mon-man Mone Mar Mone	-+		-														Road/30 Min Trek Road/30 Min Trek
4 1 4 1 3 3 5 0 1 1 1 Vadspor 455 55 0 75 22 27117 1 1 0 <			-										-	-	-		Road/30 Min Trek
Image Ansamp Ansamp </td <td>4</td> <td>YADA</td> <td></td> <td></td> <td></td> <td>-</td> <td>856</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>	4	YADA				-	856						-	-			
SIMPUMYear <t< td=""><td></td><td></td><td>Wambi/Wasaren</td><td>105</td><td>141</td><td>Wasisi HC</td><td></td><td>79</td><td></td><td></td><td>1</td><td>1</td><td>0</td><td>0</td><td>11</td><td>FM,AM</td><td>Road/2 Hr Trek</td></t<>			Wambi/Wasaren	105	141	Wasisi HC		79			1	1	0	0	11	FM,AM	Road/2 Hr Trek
S UNUN Yet																	Road/2 Hr Trek
Sundam Subarg Org Subarg	5					Wasisi HC				27.11.17						FM,AM	Road/2 Hr Trek
Waan	5	SUNDI				Sibilanga HC				21 11 17			-	-		FM AM	Road/1 Day Trek
Kolmmbi Selenger HC 2/27 4/9 1/207 2/1.117 1 1 1 0 0 PMAM 1 Dury Trek Mup 615 122 Selenger HC 1/78 32 2/1.117 1 1 0 0 0 PMAM 1 Dury Trek SUMAMEMIN 778 771 1 1 1 0 0 0 778 771 771 1 1 1 0 0 0 778 771 771 1 1 1 0 0 1 770 771 1 1 1 0 0 770 771 1 1 1 0 0 1 770 770 1						-							-				Road/1 Day Trek
King High High <th< td=""><td>6</td><td>KOLEN</td><td>/BI</td><td>374</td><td>714</td><td></td><td>448</td><td>91</td><td>235</td><td></td><td>3</td><td>3</td><td>0</td><td>0</td><td>0</td><td></td><td>•</td></th<>	6	KOLEN	/BI	374	714		448	91	235		3	3	0	0	0		•
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7 9 7 909 101 401 9 0 0 0 0 </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>•</td>			-			-									-		•
Sumamban Standary L4	7	CLIMAN				Sibilanga HC				22.11.17						FM,AM	1 Day Trek
Ynungen 118 31 Selanga HC 120 12 1 1 1 1 0 0 D PMAM 110ga Tek. Arigo 220 131 Selanga HC 100 12 11 1 1 1 0 0 D PMAM 110ga Tek. Alar Alar 285 11 1 1 1 1 1 0 0 D PMAM 110ga Tek. Alar Alar 285 123 12 73 211117 1 1 0 0 0 PMAM 10ga Tek. Minrkurba 133 285 133 12 73 12117 1 1 0 0 0 10 PMAM 10ga Tek. Stathoria 385 133 124 277 050 112 21117 1 1 0 0 0 10 PMAM Nate Stathoria 385	/	SUNA				Sibilanga HC				22.11.17			-	-	-	FM.AM	1 Day Trek
Anjoo 290 131 Subanga HC 190 32 91 21.11.7 1 1 0 0 3 FMAM 1.0yr Trek. Asier 28.35ER 233 Subanga HC 273 Subanga HC 120 711.117 1 1 0 0 0 FMAM 1.0yr Trek. Markumba 118 207 Subanga HC 273 Sub 121.117 1 1 0 0 0 FMAM 1.0yr Trek. Subanga HC 277 50 152 21.11.7 1 1 0 0 70 FMAM 1.0yr Trek. Binare 432 438 Masia HC 303 70 195 28.11.77 1 1 0 0 0 FMAM Road Subindrift 338 636 Wasia HC 303 70 11 28.11.77 1 1 0 0 1 FMAM Road Wasisi CAms 338 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ű</td> <td></td> <td>•</td>						Ű											•
8 58 - 4 4 4 4 4 0 0 4 1 0 0 4 1 0 1 PMAM 110pTek Mandkurida 111 223 Sibilaga HC 237 50 134 211117 1 1 0 0 0 PMAM 110pTek Mandkurida 118 207 Sibilaga HC 275 50 152 211117 1 1 0 0 0 PMAM 10pTek Binane 452 438 Sibilaga HC 275 50 152 211117 1 1 0 0 1 PMAM 10pTek 0 0 1 PMAM Road 10pTek 338 338 338 114 34 4 4 4 4 0 0 0 1 PMAM Road 0 1001 114 141 4 4 4 0 <t< td=""><td></td><td></td><td>Barkop</td><td>82</td><td>212</td><td>Sibilanga HC</td><td>226</td><td>42</td><td>115</td><td>22.11.17</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>FM,AM</td><td>1 Day Trek</td></t<>			Barkop	82	212	Sibilanga HC	226	42	115	22.11.17	1	1	0	0	0	FM,AM	1 Day Trek
Asier Asier Dec SplaingaHC 107 11 1 1 1 1 1 0 0 0 PMAM 11 by Trek. Marskumba 1139 288 SblangaHC 127 50 134 21.11.17 1 1 0 0 0 PMAM 11 by Trek. Binanga 333 SblangaHC 237 50 152 21.11.17 1 1 0 0 0 PMAM 10by Trek. Binanga 1.388 1.338 1.242 217 628 23.11.17 1 1 0 0 0 PMAM Road SubMorei 3.74 Massi MC 303 62 181 23.11.17 1 1 0 0 0 PMAM Road Wassis C/Mss 1614 Wassi MC 303 62 181 23.11.17 1 1 0 0 0 PMAM Road Wassis C/Mss			Anipo			Sibilanga HC				21.11.17			-			FM,AM	1 Day Trek
Mambria 111 202 ShlangaHC 140 21 73 21.11.7 1 1 0 0 PMAM 1.0py Tek Markumba 303 ShlangaHC 227 50 142 21.11.7 1 1 0 0 0 PMAM 1.0py Tek B IMARE 1.335 Cast 1.242 217 628 4 4 4 0 0 0 PMAM 1.0py Tek B Inare 462 435 Wassi HC 303 611 184 281.117 1 1 0 0 0 PMAM Road Sui-Motei 374 438 Wassi HC 303 62 181 281.117 1 1 0 0 1 PMAM Road Bon 4381 449 Wassi HC 303 70 181 27.117 1 1 0 0 0 PMAM Road Dist Maun M	8	ASIER								04 44 47			-				(D. T.)
Marakumba 969 969 969 974 951 940 21.11.7 1 1 1 0 0 0 70 70.0						-											
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Binare 462 438 Wasisi HC 333 70 195 28.11.77 1 1 0 0 0 PMAM Read Suli-Montei 332 365 Wasisi HC 353 61 184 28.11.77 1 1 0 0 1 FMAM Read Wasisi CMs. 161 1438 Wasisi HC 360 62 181 28.11.77 1 1 0 0 1 FMAM Read Bori 374 400 Wasisi HC 393 70 191 27.11.77 1 1 0 0 2 FMAM Read Mururbai 377 400 Wasisi HC 365 77 210 27.11.77 1 1 0 0 2 FMAM Read Vurpa 433 415 Wasisi HC 360 60 170 28.11.7 1 1 0 0 0 0 0 6 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>						-											
Suli-Mortei 374 385 Wasisi HC 383 61 184 28.11.7 1 1 0 0 11 FMAM Road Waigo 386 389 Wasisi HC 360 62 181 28.11.7 1 1 0 0 1 FMAM Road 10 BOIN 1,476 1.98 1.92 2.89 781 - 4 4 0 0 1 - Boni 374 400 Wasisi HC 308 70 191 27.11.7 1 1 0 0 2 FMAM Road Ori 351 413 Wasisi HC 436 66 155 28.11.7 1 1 0 0 7 FMAM Road Youja 184 1.617 305 866 28.11.7 1 1 0 0 7 FMAM Road Wara/Sumil 283 427 Wasisi HC	9	BINAR	E	1,395	1,335		1,242	217	628		4	4	0	0	12		
waigo 388 Masis HC 380 62 181 28.11.17 1 1 0 0 1 FMAM Road 10 BCIN 1.476 1.596 2.80 781 - 4 4 0 0 1 FMAM Road 10 BCIN 374 400 Wasis HC 393 70 181 2.11.17 1 1 0 0 2 FMAM Road Murumbal 377 368 Wasis HC 435 77 210 27.11.77 1 1 0 0 0 7 FMAM Road 1 Vulpa 433 415 Wasis HC 365 67 7 1 1 1 0 0 0 FMAM Road 1 Wara 1.001 1.01 1 1 1 0 0 0 FMAM Road 1 Wara/Sumin 2.02 Wasis																	
Waisi CMiss. 161 143 Wasisi HC 138 24 68 28.11.17 1 1 0 0 0 FMAM Road 10 BOINI 1.746 1.566 781 781 4 4 0 0 1 7844																	
10 DOIN 1,476 1,596 1,592 289 781 - 4 4 4 0 0 11 M BOni 374 400 Wasisi HC 393 70 191 27.11.7 1 1 0 0 2 FMAM Road Munumbal 373 368 Wasisi HC 435 77 210 27.11.7 1 1 0 0 2 FMAM Road Ori 333 415 Wasisi HC 435 77 210 27.11.7 1 1 0 0 0 FMAM Road 11 Wara/Sumil 1.681 1.681 324 66 155 28.11.7 1 1 0 0 FMAM Road Wara/Sumil 285 427 Wasisi HC 324 666 152 28.11.77 1 1 0 0 FMAM Road Wara/Sumil 282 Wasis HC 324 86 237 28.11.7 1 1 0 0			-														
Boni 374 400 Wassi HC 393 70 191 27.11.7 1 1 0 0 2 FMAM Road Ori 3317 388 Wassi HC 404 82 210 27.11.7 1 1 0 0 2 FMAM Road Ori 351 413 Wassi HC 360 60 170 28.11.17 1 1 0 0 7 FMAM Road Wara/Sumil 225 427 Wasis HC 324 66 155 28.11.7 1 1 0 0 44 FMAM Road Wara/Sumil 226 427 Wasis HC 324 666 105 28.11.17 1 1 0 0 44 FMAM Road Wuro 380 666 Masis HC 183 3 9 0 0 0 FMAM Road Koma Marco 383 <	10	BOINI	Wasisi 0/10133.			Wasisi ITO				20.11.17						1 101,7-101	Noad
Ori 331 413 Wasis HC 435 77 210 27.11.7 1 1 0 0 7 FM,AM Road Youlpa 433 415 Wasis HC 300 60 170 28.11.7 1 1 0 0 0 FM,AM Road Wara/Sumil 225 427 Wasis HC 324 66 155 28.11.7 1 1 0 0 0 FM,AM Road Weiki 243 275 Wasis HC 324 66 155 28.11.7 1 1 0 0 0 FM,AM Road Wuro 300 665 Wasis HC 485 433 100 28.11.17 1 1 0 0 0 FM,AM Road Koma NEW Wasis HC 189 33 96 27.11.7 1 1 0 0 FM,AM Road/2 HTre Muku 433 28			Boni			Wasisi HC				27.11.17						FM,AM	Road
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11 WARA 1.091 1.648 1.617 305 806 6 6 6 0 54 0 Wara/Sumil 225 427 Wasi HC 324 66 155 28.11.7 1 1 0 0 0 FMAM Road Weiki 243 275 Wasisi HC 458 85 237 28.11.7 1 1 0 0 0 FMAM Road Wuro 380 665 Wasisi HC 458 85 237 28.11.7 1 1 0 0 0 FMAM Road Yapunda 182 282 Wasisi HC 193 33 96 27.11.7 1 1 0 0 0 FMAM Road Kauk 1147 995 797 165 409 3 3 0 0 6 FMAM Road/2H Tr WINU 439 282 Wasisi HC 323 81 166 28.11.7 1 1 0 0 6 FMAM																	
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Weiki 243 275 Wasisi HC 270 59 134 26.11.77 1 1 0 0 44 FM,AM Road Wuro 380 665 Wasisi HC 458 85 237 28.11.77 1 1 0 0 10 FM,AM Road Yapunda 182 282 Wasisi HC 203 34 100 28.11.77 1 1 0 0 0 FM,AM Road Koma NEW Wasisi HC 193 33 96 27.11.77 1 1 0 0 0 FM,AM Road 12 MUKU 1,147 995 797 165 409 7.11.77 1 1 0 0 9 FM,AM Road/2 hr Tre Muku 459 285 Wasisi HC 323 81 166 28.11.77 1 1 0 0 0 7 7 161 1 0 0 0 7 7 161 1 0 0 0 0		vv ARA	Wara/Sumil			Wasisi HC				28.11.17						FM.AM	Road
Wuro 380 665 Wasisi HC 458 85 237 28.11.17 1 1 0 0 10 FMAM Road Yapunda 182 282 Wasisi HC 100 28.11.17 1 1 0 0 0 FMAM Road Koma NEW Wasisi HC 169 28 84 27.11.7 1 1 0 0 FMAM Road 12 Muku 1,147 995 797 165 409 3 3 0 0 9 FMAM Road/2H Tre Muku 456 286 Wasisi HC 186 28 96 27.11.7 1 1 0 0 9 FMAM Road/2H Tre Wowl 367 273 Wasisi HC 186 26 96 27.11.7 1 1 0 0 0 7 7 Yeresi 841 844 963 165 467 1 1 0 0 0 7 Road/2H Tre 13<																	
Koma NEW Wasisi HC 169 28 84 27.11.7 1 1 0 0 0 FM,AM Road 12 Muku 1,147 995 797 165 409 3 3 0 0 0 0 56										28.11.17		1					
Kauk NEW Wasisi HC 193 33 96 27.11.17 1 1 0 0 0 FM,AM Road 12 MUKU 1,147 995 797 165 409 3 3 0 0 56				182													
12 MUKU 1,147 995 797 165 409 3 3 0 0 56 Mathematical constraints of the second constresecon	-+																
Muku 459 285 Wasisi HC 288 58 147 27.11.7 1 1 0 0 9 FM,AM Road/2 Hr free Winbe 321 436 Wasisi HC 323 81 166 28.11.17 1 1 0 0 411 FM,AM Road/2 Hr free Wowil 367 273 Wasisi HC 186 26 96 27.11.17 1 1 0 0 6 FM,AM Road/2 Hr free 13 YERES 841 844 963 165 467 7.11.17 1 1 0 0 6 FM,AM Road/2 Hr free Yeresi 841 844 Ningil HC2 963 165 467 27.11.17 1 1 0 0 0 Road/3 Hr free Sabig 672 617 Ningil HC2 576 125 283 02.12.17 1 1 0 0 0 Road/3 Hr free <	10	MUZU	Kauk			Wasisi HC				27.11.17						FM,AM	Road
Winbe 321 436 Wasisi HC 323 81 166 28.11.17 1 1 0 0 41 FM,AM Road/2 Hr Tre Wowil 367 273 Wasisi HC 186 26 96 27.11.17 1 1 0 0 6 FM,AM Road/2 Hr Tre 13 YERES 841 844 963 165 467 1 1 0 0 6 FM,AM Road/2 Hr Tre 14 SABIG 991 962 963 165 467 27.11.17 1 1 0 0 0 0 Road/2 Hr Tre 5ABIG 991 962 963 165 467 27.11.17 1 1 0 0 0 0 Road/3 Hr Tre Sabig 672 617 Ningil HC2 360 81 175 02.12.17 1 1 0 0 0 Road/3 Hr Tre 5 Simbap 319 345 Ningil HC2 360 81 175 02.12.17 1	12	WUNU	Muku			Wasisi HC				27.11.17						FM.AM	Road/2 Hr Trek
Wowil 367 273 Wasisi HC 186 26 96 27.11.17 1 1 0 0 6 FM,AM Road/2 Hr Tre 13 YEREJ 841 844 963 165 467 1 1 0	-																Road/2 Hr Trek
Yeresi 841 844 Ningil HC2 963 165 467 27.11.17 1 1 0 0 0 Road 14 SABIG 991 962 936 206 458 2 2 0 0 0 0 Road Sabig 672 617 Ningil HC2 576 125 283 02.12.17 1 1 0 0 0 0 Road/3 Hr Tre Simbap 319 345 Ningil HC2 360 81 175 02.12.17 1 1 0 0 0 Road/3 Hr Tre 15 MAI 1,718 1,933 1,941 351 972 5 5 0 0 4 FM,AM Road/3 Hr Tre Mai 475 392 Wasisi HC 470 84 239 26.11.17 1 1 0 0 FM,AM Road Yambil 712 811 Nuku HC2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Road/2 Hr Trek</td></t<>																	Road/2 Hr Trek
14 SABIG 991 962 936 206 458 2 2 0 0 0 0 Road/3 Hr Tre Sabig 672 617 Ningil HC2 576 125 283 02.12.17 1 1 0 0 0 0 Road/3 Hr Tre Simbap 319 345 Ningil HC2 360 81 175 02.12.17 1 1 0 0 0 Road/3 Hr Tre 15 MAI 1,718 1,933 1,941 351 972 5 5 0 0 4 FM,AM Road/3 Hr Tre Mai 475 392 Wasisi HC 470 84 239 26.11.17 1 1 0 0 4 FM,AM Road Wanali 22 244 Wasisi HC 254 50 131 26.11.17 1 1 0 0 6 FM,AM Road Yambil 712 811 Nuku HC2 820 150 403 24.11.17 1 1 0	13	YERES													-		
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Simbap 319 345 Ningil HC2 360 81 175 02.12.17 1 1 0 0 0 0 Road/3 Hr Tre 15 MAI 1,718 1,933 1,941 351 972 5 5 0 0 13 C Mai 475 392 Wasisi HC 470 84 239 26.11.17 1 1 0.0 0.0 4 FM,AM Road/3 Hr Tre Wanali 475 392 Wasisi HC 470 84 239 26.11.17 1 1 0.0 0.0 4 FM,AM Road/3 Hr Tre Wanali 222 244 Wasisi HC 254 50 131 26.11.17 1 1 0.0 0.0 FM,AM Road/3 Hr Mad/3 Hr Yambin 712 811 Nuku HC2 820 150 143 24.11.17 1 1 0.0 0.0 FM,AM Road/3 Hr Mad/3 Hr Mesu	14	SABIG	Sobia			Ningil LICO				02 42 47							Dood/2 Ur T1-
15 MAI 1,718 1,933 1,941 351 972 5 5 0 0 13 C Mai 475 392 Wasisi HC 470 84 239 26.11.7 1 1 0 0 4 FM,AM Road Wanali 222 224 Wasisi HC 254 50 131 26.11.7 1 1 0 0 4 FM,AM Road Yambii 712 811 Nuku HC2 820 150 430 24.11.17 1 1 0 0 0 FM,AM Road Yirki 73 216 Wasisi HC 137 27 70 27.11.7 1 1 0 0 0 FM,AM Road Mesu 235 270 Wasisi HC 260 400 129 27.11.7 1 1 0 0 0 7 FM,AM Road Wemii 432 496 400 68 215 1 1 0 0 0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>						-											
Mai 4475 392 Wasisi HC 470 84 239 26.11.17 1 1 0 0 4 FM,AM Road Wanali 222 244 Wasisi HC 254 50 131 26.11.17 1 1 0 0 4 FM,AM Road Yambil 712 811 Nuku HC2 820 150 403 24.11.17 1 1 0 0 0 FM,AM Road Yirki 73 216 Wasisi HC 137 27 70 27.11.17 1 1 0 0 0 FM,AM Road Mesu 235 270 Wasisi HC 268 400 129 27.11.17 1 1 0 0 0 7 FM,AM Road Mesu 235 270 Wasisi HC 266 400 129 27.11.17 1 1 0 0 0 7 FM,AM Road Mesu 442 496 266 210 21.117 1	15	MAI	····														
Yambil 712 811 Nuku HC2 820 150 403 24.11.7 1 1 0 0 0 0 Road Yirki 73 216 Wasisi HC 137 27 70 27.11.7 1 1 0 0 2 FM,AM Road Mesu 235 270 Wasisi HC 260 40 129 27.11.7 1 1 0 0 2 FM,AM Road 16 WEMIL 442 496 440 68 215 02.12.17 1 1 0 0 0 7 FM,AM Road Wemil 442 496 Ningil HC2 440 68 215 02.12.17 1 1 0 0 0 0 0 7 Trek 17 LEIKO 1,159 1,058 1,032 184 495 2 2 0 0 0 0 0 1 </td <td></td> <td></td> <td>Mai</td> <td></td> <td></td> <td>Wasisi HC</td> <td></td> <td></td> <td></td> <td>26.11.17</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>FM,AM</td> <td>Road</td>			Mai			Wasisi HC				26.11.17						FM,AM	Road
Yirki 73 216 Wasisi HC 137 27 70 27.11.17 1 1 0 0 2 FM,AM Road Mesu 235 270 Wasisi HC 260 40 129 27.11.17 1 1 0 0 2 FM,AM Road 16 WEMI⊥ 442 496 440 68 215 1 1 0 0 0 7 FM,AM Road 17 LEIKO 442 496 Ningil HC2 440 68 215 02.12.17 1 1 0 0 0 0 Trek 17 LEIKO 1,159 1,058 1,032 184 495 2 2 0 0 0 0 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>FM,AM</td><td></td></td<>																FM,AM	
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16 WEMIL 442 496 440 68 215 1 1 0 0 0 0 Wemil 442 496 Ningil HC2 440 68 215 02.12.17 1 1 0 0 0 0 Trek 17 LEIKO 1,159 1,058 1,032 184 495 2 2 0 0 0 0 1	-+																
Wemil 442 496 Ningil HC2 440 68 215 02.12.17 1 1 0 0 0 0 Trek 17 LEIKO 1,159 1,058 1,032 184 495 2 2 0 0 0 0 Trek	16	WEMP	เพียรน			wasisi HC				21.11.17						FIVI,AIVI	ROBO
17 LEIKO 1,159 1,058 1,032 184 495 2 2 0 0 0 0	10		Wemil			Ningil HC2				02.12.17							Trek
Leiko 685 747 Nuku HC2 740 434 348 241117 4 4 0 0 0 0 4 Dou Tak	17	<u>LEIKO</u>													-		· · · · · · · · · · · · · · · · · · ·
Libuat 474 311 Nuku HC2 322 50 147 24.11.17 1 1 0 0 0 0 1 1 Day Trek			Leiko	685	747	Nuku HC2	710	134	348	24.11.17	1	1	0	0	0		1 Day Trek

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
18	YEMER	REBA Waniwomoka Yemereba	1,078 583 495	1,129 512 617 0	Nuku HC2 Nuku HC2	850 408 442	183 100 83	418 206 212	24.11.17 24.11.17	2 1 1	2 1 1	0 0 0	0 0	0 0 0		1 Day Trek 1 Day Trek
YANG	KOK R	URAL	20,417			20,696	4,124	9,942		58	58	0	0	0	0	
1	AUSIN	\ YUMOUN	814	538		531	100	259		4	4	0	0	0		
		Ausini	139	160	Ningil HC	170	33	82	10.12.17	1	1	0	0	0		1 Day Trek
		Hapseim Lilal	305 158	0 180	Ningil HC Ningil HC	186	30	92	10.12.17	1	1	0	0	0		1 Day Trek 1 Day Trek
		Yomoum	213	198	Ningil HC	175	37	85	10.12.17	1	1	0	0	0		1 Day Trek
2		N \ SIKEL	701	740		744	147	352		3	3	0	0	0		
		Mupun	259	251	Ningil HC	215	50	102	06.12.17	1	1	0	0	0		1 Day Trek
		Sikel	319	252	Ningil HC	375	64	175	07.12.17	1	1	0	0	0		1 Day Trek
-		Soloku 2	122	238	Ningil HC	154	33	75	07.12.17	1	1	0	0	0		1 Day Trek
3		NT \ NUNSI Auang	725	842 190	Ningil HC	803 217	148 44	390 107	06.12.17	3 1	3	0	0	0		1 Day Trek
		Nunsi	150	284	Ningil HC	233	50	112	05.12.17	1	1	0	0	0		1 Day Trek
		Weikint	398	368	Ningil HC	353	54	171	05.12.17	1	1	0	0	0		1 Day Trek
4	YUWIL	\ YEMLU	765	673		897	183	418		2	2	0	0	0		
		Yemlu	163	195	Ningil HC	233	42	105	02.12.17	1	1	0	0	0		1 Day Trek
		Yuwil	603	478	Ningil HC	664	141	313	04.12.17	1	1	0	0	0		1 Day Trek
5	LAINGI	M \ SOLOKU Laingim 1	1,199 300	1,270 301	Ningil HC	1,105 333	207 67	531 163	05.12.17	4	4	0	0	0		4 Hr Trek
		Laingim 1 Laingim 2	300 587	301 501	Ningil HC Ningil HC	538	<u>67</u> 91	262	05.12.17	1	1	0	0	0		4 Hr Trek
		Soloku 1	205	250	Ningil HC	191	40	86	05.12.17	1	1	0	0	0		4 Hr Trek
		Laingim C/Miss.	108	219	Ningil HC	43	9	20	05.12.17	1	1	0	0	0		4 Hr Trek
6	WULU	KUM	762	719		727	130	355		1	1	0	0	0		
		Wulukum	762	719	Anguganak HC	727	130	355	07.12.17	1	1	0	0	0		Road
7	PIOM \		622	652	A	732	134	360	00.10.1-	3	3	0	0	0		
		Karuka Lalui	168 234	205 197	Anguganak HC Anguganak HC	235 228	43 44	115 112	03.12.17 09.12.17	1	1	0	0	0		Road Road
		Piom	234	250		228	44	133	03.12.17	1	1	0	0	0		Road
8		EL \ PIMON	545	435		475	101	225	00.12.17	4	4	0	0	0		Roud
		Wauli	168	143	Anguganak HC	168	34	80	09.12.17	1	1	0	0	0		Road/1 Day Trek
		Mambel	166	112	Anguganak HC	158	30	74	09.12.17	1	1	0	0	0		Road/1 Day Trek
		Bimon	185	141	Anguganak HC	119	30	57	09.12.17	1	1	0	0	0		Road/1 Day Trek
-		Bimon Com.Sch	26	39	Anguganak HC	30	7	14	09.12.17	1	1	0	0	0		Road/1 Day Trek
9		OMOUM Eikil	925 95	982 86	Puang HC	1,082 75	190 18	522 36	09.12.17	4	4	0	0	0		Road/1 Day Trek
		Yili 2 & Yili 3	230	292	Puang HC	411	73	199	09.12.17	1	1	0	0	0		Road/1 Day Trek
		Yili 1	372	443	Puang HC	438	70	212	09.12.17	1	1	0	0	0		Road/1 Day Trek
		Tomoum	227	160	Puang HC	158	29	75	09.12.17	1	1	0	0	0		Road/1 Day Trek
10	PINKIL	\ BAIRAP	1,001	932		1,074	231	513		4	4	0	0	0		
		Lipoam	153	186	U U	155	42	79	06.12.17	1	1	0	0	0		Road
		Nakil Pinkil	280 237	250 266	Puang HC Puang HC	275 303	50 50	128 140	06.12.17 06.12.17	1	1	0	0	0		Road
		Bairap	330	200	Puang HC Puang HC	303	89	140	06.12.17	1	1	0	0	0		Road Road
11		I \ WITAILI	825	947	1 durig 110	876	196	420	00.12.11	3	3	0 0	0	0		riodd
		Warin	417	535	Puang HC	455	98	219	08.12.17	1	1	0	0	0		Road/3 Hr Trek
		Witali	203	214	Puang HC	242	48	113	08.12.17	1	1	0	0	0		Road/3 Hr Trek
		Yutabi	205	198	Puang HC	179	50	88	08.12.17	1	1	0	0	0		Road/3 Hr Trek
12		G \ WITIKIN	1,521	1,204	Durana LIC	1,311	298	637	07 40 47	4	4	0	0	0		Deed
		Puang Witikin	848 369	659 238	Puang HC Puang HC	506 238	147 50	248 113	07.12.17 07.12.17	1	1	0	0	0		Road Road/2 Hr Trek
		Mesi	305	307	Puang HC Puang HC	332	59	161	07.12.17	1	1	0	0	0		Road/2 Hr Trek
		Puang Station			Puang HC	235	42	115	08.12.17	1	1	0	0	0		
13	WEIS \	WITWAN	1,213	1,326		1,490	339	716		4	4	0	0	0		
		Wititai	413	461	Puang HC	486	101	234	08.12.17	1	1	0	0	0		4 Hr Trek
		Witiwan	245	228	Puang HC	358	90	171	08.12.17	1	1	0	0	0		4 Hr Trek
		Weis Wosin	<u>385</u> 171	447 191	Puang HC Puang HC	446 200	100 48	215 96	08.12.17 08.12.17	1	1	0	0	0		4 Hr Trek 4 Hr Trek
14		VVOSIN FONIK \ YEMNU	1/1 1,563	191 1,372	Fually HC	200 1,604	48 310	96 778	00.12.17	2	2	0	0	0		
		Tomontonik	461	427	Puang HC	702	140	340	09.12.17	1	1	0	0	0		3 Hr Trek
		Yemnu	1,102	945	Puang HC	902	170	438	09.12.17	1	1	0	0	0		3 Hr Trek
15		GANAK	957	984		950	150	459		2	2	0	0	0		
[Anguganak	628	709	Anguganak HC	618	100	299	09.12.17	1	1	0	0	0		Road
4.0		Winaluk	329	275	Anguganak HC	332	50	160	09.12.17	1	1	0	0	0		Road
16	RAWO	T Rawot	770 770	881 881	Anguganak HC	897 897	200 200	437 437	09.12.17	1	1	0	0	0		Road
17	MAIMB		870	916		897 719	200 143	437 346	03.12.17	1	1	0	0	0		Ruau
. /		Maimbil	870	916		719	143	346	09.12.17	1	1	0	0	0		1 Day Trek
18		AP \ BOGASIP	1,275	1,210		1,332	296	636		2	2	0	0	0		· · · · · · · · · · · · · · · · · · ·
		Bogasip	495	479		511	100	247	09.12.17	1	1	0	0	0		1 Day Trek
		Brugap	780	731	Anguganak HC	821	196	389	08.12.17	1	1	0	0	0		4 Hr Trek
19	YANKO		1,084	902		1,150	209	549		3	3	0	0	0		
		Yankok Anguganak Miss	769	706	Anguganak HC	776 277	142 50	371 132	05.12.17	1	1	0	0	0		Road
		Anguganak Miss. Yangkok St	52 264	158 38	Anguganak HC Anguganak HC	97	50 17	132 46	05.12.17 05.12.17	1	1	0	0	0		Road Road
20	NINGIL		1,534	1,568		1,512	293	716	55.12.17	2	2	0	0	0		11000
		Ningil 1	1,481	1,458	Ningil HC	1,441	269	680	04.12.17	1	1	0	0	0		Road
		Ningil C/Miss.	53	110	Ningil HC	71	24	36	04.12.17	1	1	0	0	0		Road
21		J\WOBLAKIL	746	750		685	119	323		2	2	0	0	0		
		Mushu	313	300		278	45	129	10.12.17	1	1	0	0	0		1 Day Trek
		Wublakil	433	450	Anguganak HC	407	74	194	10.12.17	1	1	0	0	0		1 Day Trek

SANDAUN PROVINCE VANIMO GREEN RIVER POPULATION 2017 LLIN DISTRIBUTION SUMMARY SHEET

		VILLAGE	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		EEN RIVER	74,708	89,050		91,731	14,816	44,107		287	97	6	0	2,061	220	
	BIBRIA		14,101 871	15,231 904		15,909	2,715 192	7,537 433		79 5	27	0	0	380	79	
1		Bibriari	137	136	Amanab HC	891 150	36	433 68	23.11.17	5 1	2	0	0	14 0	NBC	Road
		Biwan (Bibriari)	333	341	Amanab HC	319	70	159	23.11.17	1	0	0	0	14	NBC	Road
		Nai 1	113	118	Amanab HC	127	20	63	23.11.17	1	0	0	0	0	NBC	Road/1 Hr Trek
		Senagi	113	136	Amanab HC	127	32	65	23.11.17	1	0	0	0	0	NBC	Road/1 Hr Trek
		Wamu	150	130	Amanab HC	150	34	78	23.11.17	1	1	0	0	0	NBC	Road
2	FOROM		682	749	/ indiab i io	711	136	344	20.11.17	4	2	0	0	0	NDO	Hodd
		Amondon	74	0	Amanab HC	75	25	35	18.11.17	1	0	0	0	0	NBC	Road/4 Hr Trek
		Kwaramun	336	552	Amanab HC	278	52	137	18.11.17	1	1	0	0	0	NBC	Road/4 Hr Trek
		Purumun	172	184	Amanab HC	206	34	100	18.11.17	1	1	0	0	0	NBC	Road/4 Hr Trek
		Unupai	100	12	Amanab HC	152	25	72	18.11.17	1	0	0	0	0	NBC	Road/4 Hr Trek
3	ITOMI	· ·	506	763		1,393	185	566		4	0	0	0	20		
		Fas 3	236	315	Amanab HC	654	90	274	12.11.17	1	0	0	0	6	NBC	Road
		Finamoi	78	80	Amanab HC	269	36	100	19.11.17	1	0	0	0	0	NBC	Road
		Itomi	193	212	Amanab HC	257	32	107	11.11.17	1	0	0	0	4	NBC	Road
		Fiyemi		156	Amanab HC	213	27	85	11.11.17	1	0	0	0	10	NBC	Road
4	MAMAN	MURA	788	619		637	111	296		5	0	0	0	24		
		Mamamura	250	173	Kamberatoro HC	162	33	75	17.11.17	1	0	0	0	24	NBC	4 Hr Trek
		Mongrovei	60	0	Kamberatoro HC	55	9	26	18.11.17	1	0	0	0	0	NBC	4 Hr Trek
		Nindebai	206	144	Kamberatoro HC	157	27	72	17.11.17	1	0	0	0	0	NBC	4 Hr Trek
		Orkwanda	59	134	Kamberatoro HC	98	17	45	18.11.17	1	0	0	0	0	NBC	4 Hr Trek
		Yamamainda	212	168	Kamberatoro HC	165	25	78	17.11.17	1	0	0	0	0	NBC	4 Hr Trek
5	WAHAI	l	593	428		496	93	220		5	0	0	0	16		
		Bambol	191	100	Kamberatoro HC	114	23	45	18.11.17	1	0	0	0	0	NBC	4 Hr Trek
		Mangali	103	74	Kamberatoro HC	80	18	37	18.11.17	1	0	0	0	8	NBC	4 Hr Trek
		Wagurinda	163	90	Kamberatoro HC	122	21	56	16.11.17	1	0	0	0	5	NBC	4 Hr Trek
		Wahai	135	71	Kamberatoro HC	79	12	36	16.11.17	1	0	0	0	3	NBC	4 Hr Trek
		Mangau		93	Kamberatoro HC	101	19	46	16.11.17	1	0	0	0	0	NBC	4 Hr Trek
~			650	504		600		200		-				-		Kamberotora 6-7 Hours From Amanab HC
6	KAMBE	ERATORO	658	504	Karah aratara UC	620	93	289	45 44 47	5 1	0	0	0	21	NDC	5 Minutes From HC
		Akimari 1 Komboratora	175 240	102 222	Kamberatoro HC	104 279	20	54	15.11.17		0	-	0	0	NBC NBC	HC Here
		Kamberatoro Nimberatoro	240	98	Kamberatoro HC Kamberatoro HC	93	28 18	126 42	16.11.17 16.11.17	1	0	0	0	11	NBC	I Hr Walk
		Tamarbek	85	90 50	Kamberatoro HC	93 84	18	39	15.11.17	1	0	0	0	9	NBC	4 Hr Trek
		Kamberatoro C/M	46	32	Kamberatoro HC	60	9	28	15.11.17	1	0	0	0	1	NBC	HC Here
7	KOFINI		682	711	Ramberatoro no	674	131	325	13.11.17	3	1	0	0	5	NDC	The Here
		Lihen	125	172	Amanab HC	153	36	79	20.11.17	1	0	0	0	1	NBC	3-4 Hr Trek
		Kabaineri	208	98	Amanab HC	218	33	104	20.11.17	1	0	0	0	1	NBC	3-4 Hr Trek
		Kofiniau (Apu)	349	441	Amanab HC	303	62	142	20.11.17	1	1	0	0	3	NBC	3-4 Hr Trek
8	IAFAR		832	934		903	169	446		5	2	0	0	18		
		lafar 1	163	203	Amanab HC	151	29	69	18.11.17	1	0	0	0	9	NBC	5 Hr Trek
		lafar 2	109	99	Amanab HC	88	16	44	18.11.17	1	0	0	0	5	NBC	5 Hr Trek
		lafar 3	110	174	Amanab HC	161	32	80	18.11.17	1	0	0	0	3	NBC	5 Hr Trek
		Pateineri 1	330	316	Amanab HC	358	64	178	21.11.17	1	1	0	0	1	NBC	6 Hr Trek
		Pateineri 2	119	142	Amanab HC	145	28	75	18.11.17	1	1	0	0	0	NBC	6 Hr Trek
9	NAINE	RI	1,148	1,349		898	166	449		4	2	0	0	1		
		Naineri 2 (Moas)	249	337	Amanab HC	217	43	109	18.11.17	1	1	0	0	1	NBC	3 Hr Trek
		Ainokneri	199	258	Amanab HC	202	36	101	18.11.17	1	0	0	0	0	NBC	3 Hr Trek
		Moakneri	266	271	Amanab HC	268	45	133	18.11.17	1	1	0	0	0	NBC	2 Hr Trek
		Naineri 1&2	434	483	Amanab HC	211	42	106	18.11.17	1	0	0	0	0	NBC	1.5 Hr Trek
10	WAMU	RU	846	991		987	140	498		5	0	0	0	14		
		Bipan	146	220	Amanab HC	239	38	124	10.11.17	1	0	0	0	0	NBC	Road
		Wamuru#1			Amanab HC	201	39	100	10.11.17	1	0	0	0	0	NBC	Road
		Wamuru#2			Amanab HC	320	18	160	10.11.17	1	0	0	0	14	NBC	New
		Wamuru#3	549	613	Amanab HC	94	24	47	10.11.17	1	0	0	0	0	NBC	New
		Wogineri	152	158	Amanab HC	133	21	67	10.11.17	1	0	0	0	0	NBC	Road
11	AHERI		936	778		786	151	399		5	5	0	0	0		
		Aheri	181	175	Amanab HC	165	28	84	21.11.17	1	1	0	0	0	NBC	Road
		Bananag	97	70	Amanab HC	92	11	46	21.11.17	1	1	0	0	0	NBC	20 Minute Trek
		Ibagum	308	255	Amanab HC	246	46	123	21.11.17	1	1	0	0	0	NBC	Road
		Sraminag	160	86	Amanab HC	88	17	44	18.11.17	1	1	0	0	0	NBC	I Hr Trek
		Mowaineri	190	192	Amanab HC	195	49	102	13.11.17	1	1	0	0	0	NBC	I Hr Trek
12			331	306	Amarak U.O.	302	54	154	14 44 47	1	1	0	0	15	NDC	Dood
		Amanab Dist.H/Q	331	306	Amanab HC	302	54	154	14.11.17	1	1	0	0	15	NBC	Road
13	IVEIG	Aurumo	899 250	965 257	Amanah	1,003	186	501	10 11 17	4	2	0	0	54 21	NPC	Road
		Aurump	250	257	Amanab HC	280	50 21	141	18.11.17	1	0	0	0	21	NBC	
		lfigeri Iframinag	107 237	111 235	Amanab HC	109	21 52	55 131	18.11.17	1	1	0	0	0	NBC	Road 2 Hr Trek
		Iframinag	305	235	Amanab HC	272 342	52 63	131 174	18.11.17	1		0	0	33	NBC NBC	2 Hr Trek Road
4.4	AKRAN	Iveig	305 929	362 1,264	Amanab HC	342 1,281	63 207	174 640	18.11.17	1 6	1 3	0	0	33 55	NBC	NURU
	AINKAN		265	1,264 278				133	15 14 47		3	0	0	0	NPC	Road/1.5 Hr Trek
14	1	Akraminag Yaftimbi	265	278	Amanab HC Amanab HC	279 332	50 50	133	15.11.17 10.11.17	1	1	0	0	38	NBC NBC	Road
14			144			108	20	54	21.11.17	1	1	0	0	- 38 - 0	NBC	Road/3-4 Hr Trek
14			174	107			20	- 04	61.11.1/			0				
14		Nabaineri	171 128	137	Amanab HC			80								Road/I Hr Trek
		Nabaineri Yumor 1	128	138	Amanab HC	160	27	80 23	18.11.17	1	1	0	0	2	NBC	Road/I Hr Trek Road/2 Hr Trek
		Nabaineri Yumor 1 Yumor 2	128 50	138 75	Amanab HC Amanab HC	160 47	27 7	23	18.11.17 18.11.17	1 1	1 0	0	0	2 0	NBC NBC	Road/2 Hr Trek
		Nabaineri Yumor 1	128	138	Amanab HC	160	27		18.11.17	1	1	0	0	2	NBC	

			Estimated 2017 Data	Estimated			House							Houses		
LLG	WARD	VILLAGE	Based On	2017 Data Based On	Health Centre	Population Surveyed	Holds	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	With	Radio Networks	Comment
			2000 Census	2014 Data		,	Surveyed							Radios		
		Mouri	110	142	Amanab HC	159	31	81	16.11.17	1	1	0	0	0	NBC	Road
		Nai 2	258	268	Amanab HC	275	45	139	16.11.17	1	1	0	0	3	NBC	Road
		Owaniak	236	270	Amanab HC	286	44	141	19.11.17	1	1	0	0	6	NBC	Road
		Wofneri	362	499	Amanab HC	317	81	172	19.11.17	1	1	0	0	1	NBC	Road
16	UTAI	A1	665	828		1,144	167	468	171117	4	0	0	0	50	NIDO	Road
		Aiamina Ekas	162 162	191 228	Utai HC Utai HC	300 337	49 50	119 136	17.11.17 12.11.17	1	0	0	0	49 0	NBC NBC	Road
		Wurubai	102	112	Utai HC	228	36	97	18.11.17	1	0	0	0	1	NBC	Road
		Utai	234	297	Utai HC	279	32	116	17.11.17	1	0	0	0	0	NBC	Road
17	GURIA		1,073	1,078		1,152	184	477		5	0	0	0	46		
		Mofor	166	149	Guriaso HC	155	18	64	18.11.17	1	0	0	0	17	NBC	Road Road
		Guriaso Maragin	238 343	208 391	Guriaso HC Guriaso HC	289 288	48 51	124 118	18.11.17 18.11.17	1	0	0	0	1	NBC NBC	Road
		Yauri	249	219	Guriaso HC	200	27	89	18.11.17	1	0	0	0	25	NBC	Road
		Wagrani	77	110	Guriaso HC	220	40	82	18.11.17	1	0	0	0	3	NBC	Road / Trek
18	KWOM		567	765		878	120	440		4	2	0	0	17		
-		Baiberi	138	242	Amanab HC	230	29	115	10.11.17	1	1	0	0	3	NBC	Road
		Kwomtari Mango	127 112	167 130	Amanab HC Amanab HC	235 123	31 20	119 61	10.11.17 10.11.17	1	1	0	0	9 5	NBC NBC	Road Road
-		Yenabi	112	227	Amanab HC	290	40	145	10.11.17	1	0	0	0	0	NBC	Road
									-					-	-	
	-	JTUNG ONEI RURAL	21,365	24,529		26,279	3,993	12,622		68	23	0	0	1,628	65	
1	WUTU		1,070	1,321	1	1,196	162	574	10.44.1-	2	2	0	0	152	Dert C	Dood
		Wutung Wutung Station	980 90	1,208 112	Lote HC Lote HC	1,025 171	138 24	492 82	10.11.17	1	1	0	0	128 24	Radio San Radio San	Road Road
2	MUSU		90 443	781	LOIG TIC	924	24 146	82 444	10.11.17	3	2	0	0	24 22	Radio San	
_		Fichin	184	442	Lote HC	364	60	175	11.11.17	1	1	0	0	0	Radio San	Road
		Mushu	259	339	Lote HC	352	52	169	11.11.17	1	1	0	0	0	Radio San	Road
		Border Post Camp		NEW	Lote HC	208	34	100	11.11.17	1	0	0	0	22	Radio San	Road
3	YAUKC	NO Yaukono	415	478 478	Lote HC	746 392	109 59	358 188	11.11.17	2 1	0	0	0	82 44	Radio San	Road
		Didi Camp	415	NEW	Lote HC	354	50	170	11.11.17	1	0	0	0	38	Radio San	Road
4	YAKO		695	940		1,218	188	584		2	2	0	0	162		
		Yako	661	557	Lote HC	991	147	475	10.11.17	1	1	0	0	131	Radio San	Road
		Baro	34	384	Lote HC	227	41	109	10.11.17	1	1	0	0	31	Radio San	Road
5	WARIN	10 Warimo	1,503 1,503	1,366 1,366	Lata HC	1,244 1,244	200 200	597 597	10 11 17	1	1	0	0	190	Dadia Can	Road
6		O (LIDO)	2,408	2,204	Lote HC	2,370	200 318	1,132	10.11.17	1 3	2	0	0	190 275	Radio San	Rudu
		Vanimo (Lido)	1,762	1,533	Lote HC	1,922	242	922	14.11.17	1	1	0	0	215	Radio San	Road
		llolo	308	321	Lote HC					1						Included under Lido
		Karanas Pit	339	350	Lote HC	448	76	210	14.11.17	1	1	0	0	60	Radio San	Road
7	NINGR	A Ningra	1,188 216	909 329	Dabu HC	1,543 640	236 100	702 302	17.11.17	4 1	4 1	0	0	38		Road/Trek
-		Wara Black	424	329	Dabu HC	339	59	164	15.11.17	1	1	0	0	FM	/ Radio San	Road/30 Min Trek
		Wara Bris no.1	471	182	Dabu HC	265	46	127	17.11.17	1	1	0	0	38	rtaalo oan	Road
		vfp Pual Base camp	77	0	Dabu HC	299	31	109	15.11.17	1	1	0	0	FM /	/ Radio San	Road
8	RAWO		409	392		374	80	186		1	1	0	0	16		_
0		Rawo	409	392	Dabu HC	374	80	186	03.11.17	1	1	0	0		Radio San	Boat
9	POKO	Poko	361 361	401 401	Dabu HC	396 396	65 65	190 190	03.11.17	1	1	0	0	23 23	Radio San	Boat
10	NOWA		533	401	Dabarrio	370	49	185	00.111.17	2	2	ů 0	0	13	rtadio Odri	
		Nowake	265	285	Laitre HC	286	37	143	31.10.17	1	1	0	0	7	Radio San	Boat
		8 Talis	268	191	Laitre HC	84	12	42	31.10.17	1	1	0	0	6	Radio San	Boat
11	LAITRE		974 439	1,139 404	Laitre HC	1,131	208	564	31 10 47	3	3 1	0	0	146	Radio Co	Boat
		lsi Pino	439 481	404 547	Laitre HC Laitre HC	383 647	58 132	191 323	31.10.17 31.10.17	1	1	0	0	113 29	Radio San Radio San	Boat
	1	Laitre Cm	54	187	Laitre HC	101	18	50	31.10.17	1	1	0	0	4	Radio San	Boat
12	PUARE		315	562		616	108	307		2	2	0	0	11		
	<u> </u>	Puare	315	425	Laitre HC	446	79	222	01.11.17	1	1	0	0	0	Radio San	Boat
40	ONEI	Pabile	280	137 391	Laitre HC	170 320	29 50	85 160	31.10.17	1 1	1 1	0	0	11 23	Radio San	Boat
13		Onei	280	391 391	Laitre HC	320	50 50	160 160	01.11.17	1	1	0	0	23	Radio San	Boat
14	OSOL		751	828		768	112	369		4	0	0	0	47	can	
		Aiyawou	246	232	Bewani HC	185	26	89	12.11.17	1	0	0	0	5	Radio San	Road
	<u> </u>	Elau	121	268	Bewani HC	127	18	61	12.11.17	1	0	0	0	7	Radio San	Road
		Osol Sosi	228 156	0 328	Bewani HC Bewani HC	172 284	23 45	83 136	12.11.17 12.11.17	1	0	0	0	17 18	Radio San Radio San	Road Road
15	KRISA	0031	156 689	328 989	Dewalli HC	284 884	45 161	136 425	12.11.17	1 2	0	0	0	18 62	Naulo San	Nudu
		Aule	69	0	Bewani HC	74	13	36	12.11.17	1	0	0	0	5	Radio San	Road
		Krisa	620	989	Dabu HC	810	148	389	19.11.17	1	0	0	0	57	Radio San	Road
16	OSSIM		1,747	1,660	0	1,890	260	899	40.11	6	0	0	0	3	D	D I
		Airu Awol	287 255	264 74	Ossima HC Ossima HC	356 195	46 30	170 94	16.11.17 16.11.17	1	0	0	0	3 FM	Radio San Radio San	Road Road
		Omula	342	392	Ossima HC Ossima HC	474	- 30 - 61	94 225	16.11.17	1	0	0	0		Radio San	Road/10 Min Walk
		Ossima	433	373	Ossima HC	351	50	164	16.11.17	1	0	0	0		/ Radio San	Road
		Omoi	340	353	Ossima HC	340	50	163	16.11.17	1	0	0	0		/ Radio San	Road/15 Min Walk
	1/11:12	Ossima Om	91	205	Ossima HC	174	23	83	16.11.17	1	0	0	0		/ Radio San	Road
17	KILIPAI		1,119 459	1,314 750	Bewoni HC	1,248 540	214	635 295	12 11 17	3	0	0	0	153 64	Radio Cor	Road
		Kilipau Kiliwes	459	750 564	Bewani HC Bewani HC	413	82 82	295 198	12.11.17 12.11.17	1	0	0	0	64 69	Radio San Radio San	Road
		vfp Blk Base Camp	238	0	Bewani HC	295	50	142	12.11.17	1	0	0	0	20	Radio San	Road
18	ILUP	· ·	1,214	850		1,431	183	686		4	0	0	0	83		
	<u> </u>	llup	581	342	Bewani HC	596	50	286	13.11.17	1	0	0	0	48	Radio San	Road/15 Min Walk
		lsi 1	193	508	Bewani HC	176	36	84	13.11.17	1	0	0	0	13	Radio San	Road Road/20 Min Walk
		lsi 2 Isi Daro	440	0 NEW	Bewani HC Bewani HC	292 367	50 47	140 176	13.11.17	1	0	0	0	16 6	Radio San Radio San	
	I			INC VV	Dewani HC	307	47	170	13.11.17	1	U	0	0	0	raulo San	uauli

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
19	AMOI		590	568		506	94	243		2	0	0	0	81		
	-	Amoi	402	460	Bewani HC	406	79	195	13.11.17	1	0	0	0	66	Radio San	Road
		Bewani St	188	108	Bewani HC	100	15	48	13.11.17	1	0	0	0	15	Radio San	Road
20	SOMBO	I	508	597		625	128	299		2	0	0	0	0		
		Nambes	144	151	Bewani HC	149	34	71	13.11.17	1	0	0	0		Radio San	Road
		Somboi	364	446	Bewani HC	476	94	228	13.11.17	1	0	0	0		Radio San	Road
21	ITULY		667	721		681	91	323		2	0	0	0	18		
		Apwambo	259	418	Bewani HC	416	54	196	13.11.17	1	0	0	0		Radio San	Road
22	SKOTIA	Idoli	408 477	303 1,114	Bewani HC	265 1,005	37 126	127 480	13.11.17	1 3	0	0	0	18 27	Radio San	Road
22	SKUTIA	Skotiaho	371	1,114	Bewani HC	504	50	242	13.11.17	3 1	0	0	0	16	Radio San	Road
		Tapos	106	169	Bewani HC	150	26	70	13.11.17	1	0	0	0		Radio San	Road
		Skotiaho Base Camp	100	454	Bewani HC	351	50	168	13.11.17	1	0	0	0	11	Radio San	Road
23	AINBAI		342	518		549	64	260		3	0	0	0	0		
		Ainbai	196	377	Bewani HC	345	42	162	13.11.17	1	0	0	0	FM /	Radio San	Road
		Elis 1	103	141	Bewani HC	204	22	98	13.11.17	1	0	0	0	FM /	Radio San	Road/I Hr Trek
		5.0	10		B									-		la shuda duus dan Elia ((Dan d)
24	SUMUN	Elis 2	43 745	0	Bewani HC	4 505	221	756		1 4	0	0	0	1 FINI	Radio San	Included under Elis1 (Road)
24	2010101	Waramaiyu	225	1,429 165	Bewani HC	1,595 225	221	756 108	13.11.17	4	0	0	0		Radio San	Road
		Sumumini	328	771	Dabu HC	983	131	465	14.11.17	1	0	0	0		Radio San	Road
		You'o	191	314	Dabu HC	267	38	125	14.11.17	1	0	0	0	0	Radio San	Road/3-4 Hr Trek
		Sumumini Transit Camp		180	Dabu HC	120	23	58	15.11.17	1	0	0	0	0	Radio San	Road
25	IMBOI 2		1,198	1,559		1,553	251	745		4	0	0	0	0		
		Imbio 1	475	660	Dabu HC	588	100	282	15.11.17	1	0	0	0		Radio San	Road
		Imbio 2	318	501	Dabu HC	544	90	261	15.11.17	1	0	0	0		Radio San	Road
		Samararu	243	148	Dabu HC	170	28	82		1					Radio San	Road/30 Min Trek
		Vnmo frst.blk/B-cp	162	250	Dabu HC	251	33	120	15.11.17	1	0	0	0		Radio San	Road
26	IMBRIN		580	807	Dahu UQ	945	150	446	444447	1	0	0	0	0		Bood
27	IMBRIN	Imbrinis	580 144	807 214	Dabu HC	945 151	150 19	446 73	14.11.17	1 1	0	0	0	• FM /	Radio San	Road
21		Seme	144	214	Dabu HC	151	19	73	14.11.17	1	0	0	0	-	Radio San	Road
		oono	144	0	Dabarrio	101	10	10	14.11.17	•	0	0		1 101 /		rioda
GREE	N RIVE	RRURAL	16,025	17,922		18,137	2,891	8,899		70	14	0	0	28	50	
1	ABARU	J	1,004	533		734	119	376		3	3	0	0	1		
		Abaru	333	264	Green River HC	289	49	145	15.11.17	1	1	0	0	0	BC Sandau	Road
		Green River S/Dist.	166	120	Green River HC	329	49	163	15.11.17	1	1	0	0	1	BC Sandau	Road
		Yuri Sett.	505	149	Green River HC	116	21	68	15.11.17	1	1	0	0	0	BC Sandau	Road
2	DIORU		456	603		462	113	302		2	2	0	0	2		
		Dioru	219	246	Green River HC	231	43	115	15.11.17	1	1	0	0	0	BC Sandau	Road Road
2	HOGRI	Ibeiyier	237 484	356 446	Green River HC	231 428	70 79	187 214	15.11.17	1 2	1 0	0	0	2 2	BC Sandau	Ruau
3		Anauk (Hogru no.2)	181	157	Stone Pass	161	31	81	11.11.17	1	0	0	0	1	WS FM	2-3 Hr Trek
		Hogru (Yasisie)	303	289	Stone Pass	267	48	133	10.11.17	1	0	0	0	1	WS FM	30 Min Trek
4	RAWEI		359	464		464	71	232		3	0	0	0	0		
		Auya (Wapuku)	130	166	Stone Pass	178	28	89	09.11.17	1	0	0	0	0	WS FM	Road/Boat/Trek
		Busa	113	160	Stone Pass	156	25	78	10.11.17	1	0	0	0	0	WS FM	Road/Boat/Trek
-		Rawei	116	138	Stone Pass	130	18	65	10.11.17	1	0	0	0	0	WS FM	Road/Boat/Trek
5	NAGAT		424	474	Otore Dees	485	64	243 117	44 44 47	2 1	0	0	0	0		Road/Boat
		Nagatiman Tila (Weiku)	193 231	220 254	Stone Pass Stone Pass	233 252	32 32	117	11.11.17 10.11.17	1	0	0	0	0	WS FM WS FM	Road/Boat
6	DILA	Tild (Welku)	431	537	Otorie i ass	564	80	282	10.11.17	2	0	0	0	1	VV011VI	rioud/boat
0		Dila	180	188	Stone Pass	220	36	110	10.11.17	1	0	0	0	1	WS FM	Road/Boat
		Hera	252	349	Stone Pass	344	44	172	10.11.17	1	0	0	0	0	WS FM	Road/Boat
7	MORKE	EINI	224	281		387	65	194		3	0	0	0	0		
		Karboni	59	94	Stone Pass	118	18	59	10.11.17	1	0	0	0	0	WS FM	Road/Boat
		Morkeini	85	110	Stone Pass	129	24	65	10.11.17	1	0	0	0	0	WS FM	Road/Boat
	1414 -	Tere	79	77	Stone Pass	140	23	70	10.11.17	1	0	0	0	0	WS FM	Road/Boat
8	WAGU	lwou	493 84	567 123	Stone D	581	82 25	283	10 11 17	2 1	0	0	0	0		Road/Boat
		lwau Wagu	409	443	Stone Pass Stone Pass	110 471	25 57	56 227	10.11.17	1	0	0	0	0	WS FM WS FM	Road/Boat Road/Boat
9	BEIMA		409 511	704	0.0101 035	684	93	335	10.11.17	2	0	0	0	13	110 T W	. today bodt
5		Beimap	213	280	Stone Pass	243	34	121	10.11.17	1	0	0	0	13	WS FM	Road/Boat
		Senou	297	424	Stone Pass	441	59	214	10.11.17	1	0	0	0	0	WS FM	Road/Boat
10	SEIAW		244	391		392	57	197		1	0	0	0	0		
		Seiawi	244	391	Stone Pass	392	57	197	10.11.17	1	0	0	0	0	WS FM	Road/Boat/2-3 Hr Trek
11	AMTO		449	557		525	64	263		2	0	0	0	0		
		Amto 1	281	410	Stone Pass	338	41	169	09.11.17	1	0	0	0	0	WS FM	Road/Boat/2 Hr Trek
		Amto 2	168	147	Stone Pass	187	23	94	10.11.17	1	0	0	0	0	WS FM	Road/Boat/2 Hr Trek
12	BISIAB		294 294	390 390	Die Div	460	61 61	216	561117	1 1	0	0	0	0	No	Road/Boat
12	IDAM 1	Bisiabru	294 813	390 997	Dio River	460 991	61 152	216 463	5-6.11.17	1 1	0	0	0	0	No	nuau/DUäl
13		ldam 1	813	997	Dio River	991	152	463	5-6.11.17	1	0	0	0	0	No	Road/Boat/Trek
14	IDAM 2		705	872	Dio ravei	724	125	340	0 0.11.17	3	0	0	0	0	110	
		ldam 2	536	652	Dio River	588	95	278	5-6.11.17	1	0	0	0	0	No	Road/Boat/Trek
		Wokomo 1	35	82	Dio River	48	11	22	5-6.11.17	1	0	0	0	0	No	Road/Boat/Trek
		Wokomo 2	134	138	Dio River	88	19	40	5-6.11.17	1	0	0	0	0	No	Road/Boat/Trek
15	HUFI		297	317		306	50	138		1	0	0	0	0		
		Hufi	297	317	Dio River	306	50	138	5-6.11.17	1	0	0	0	0	No	Road/Boat
	BIAKA		252	315	D: D:	329	54	155		2	0	0	0	0		Des VD set
16		Biake 1	100	132	Dio River	130	19	61 94	5-6.11.17	1	0	0	0	0	No	Road/Boat Road/Boat
16			100	100												
		Biake 2	152	183	Dio River	199	35 57		5-6.11.17		0	0	0	0	No	Rudu/Budi
	KASEIF	Biake 2 RU	365	403		423	57	199		1	0	0	0	0		Road/Boat
17	KASEIF	Biake 2 RU Kasieru			Dio River Dio River				5-6.11.17						No	

		1		1						1						1
			Estimated	Estimated												
116	WARD	VILLAGE	2017 Data Based On	2017 Data	Health Centre	Population	House Holds	Nets	Date Of	Villages	Digical	Bmobile	Citifon	Houses With	Radio	Comment
LLO	MAND	VILLAGE	2000	Based On 2014 Data	riealin Gentre	Surveyed	Surveyed	Issued	Distribution	villages	Digicei	Diriobile	Churon	Radios	Networks	Comment
			Census	2014 Data												
19	KOBRA	ARU	222	271		286	46	134		1	0	0	0	0		
		Kobraru	222	271	Dio River	286	46	134	5-6.11.17	1	0	0	0	0	No	Road/Boat
20	YABRU	J	952	1,042		1,069	153	499		2	1	0	0	0		Disiasi success at says a day
		Yabru no.1	365	524	Dio River	669	95	315	5-6.11.17	1	1	0	0	0	Yes	Digicel coverage at one edge of the village
		Yabru no.2	587	518	Dio River	400	58	184	5-6.11.17	1	0	0	0	0	No	Road/Boat
21	BUNA		297	360		378	62	179		1	1	0	0	0		
		Buna	297	360	Dio River	378	62	179	6-7.11.17	1	1	0	0	0	No	Digicel coverage on one raised bank across the Sepik River
22	MAHNE		580	709	Dio Kivei	696	112	349	0-7.11.17	3	3	0	0	2	110	
		Baiwai	222	267	Stone Pass	251	41	126	10.11.17	1	1	0	0	2	WS FM	Road/Boat
		Mahanei	227	222	Stone Pass	185	29	93	10.11.17	1	1	0	0	0	WS FM	Road/Boat
		Kiboupur	131	220	Stone Pass	260	42	130	10.11.17	1	1	0	0	0	WS FM	Road/Boat
23	MUKUA		498	534		616	96	291	704447	2	0	0	0	0		Deed/Deet
		Simaiye Island Musu	287 211	324 210	Dio River Dio River	276 340	46 50	129 162	7-8.11.17	1	0	0	0	0	No No	Road/Boat Road/Boat
24	BIFRO		509	556	Dio Rivei	572	85	277	7=0.11.17	1	0	0	0	0	INU	Road/Doat
24	Dirito	Bifro	509	556	Stone Pass	572	85	277	09.11.17	1	0	0	0	0	WS FM	Road/Boat
25	BAIO		206	441		398	61	198		1	0	0	0	0	-	
		Baio	206	441	Stone Pass	398	61	198	09.11.17	1	0	0	0	0	WS FM	Road/Boat
26	YIBRU		568	657		670	116	331		2	0	0	0	2		
		Yibru	246	241	Green River HC	282	44	138	14.11.17	1	0	0	0	2	BC Sandau	Road
77	MINIAE	Bini	322 514	416 581	Green River HC	388 592	72 94	193 292	14.11.17	1 3	0	0	0	0	BC Sandau	Road
21	WINNAE	Miniabru	514 153	581 127	Green River HC	345	94 55	292 171	14.11.17	3 1	1	0	0	0		Boat/I Hr Trek
		Simia	237	270	Green River HC	247	39	121	14.11.17	1	1	0	0	0		Boat/I Hr Trek
		Prek	124	183	Green River HC					1						Non Existant now. Included
	A 1 - D				SISSI INVELLIG											under Miniabru
28	AUIYA	1 Auiya 1	327 69	375 81	Green River HC	310 58	55 12	149 28	13.11.17	3	0	0	0	0		Road/30 Min Trek
		Auiya 1 Auiya 2	172	165	Green River HC	125	20	20 59	13.11.17	1	0	0	0	0		Road/30 Min Trek
		Usari	85	130	Green River HC	120	23	62	13.11.17	1	0	0	0	0		Road/30 Min Trek
29	KAMBF		526	739		654	111	322		2	0	0	0	0		
		Trowari	246	309	Green River HC	224	39	105	13.11.17	1	0	0	0	0		Road/Trek
		Kambriap	280	429	Green River HC	430	72	217	13.11.17	1	0	0	0	0		Road/Trek
30	FONGI		450	230	0 5 10	380	68	178		2	0	0	0	0		Deed/Deet
		Forginum	190 261	70	Green River HC	203 177	36 32	95	13.11.17	1	0	0	0	0		Road/Boat Road/Boat
31	IURI 1	Panagan	201	160 162	Green River HC	177	32 29	83 84	13.11.17	1 2	0	0	0	0		Ruau/Buai
01		luri 1	110	77	Green River HC	107	18	50	14.11.17	1	0	0	0	0		Road/Boat
		luri 2	137	85		70	11	34	14.11.17	1	0	0	0	0		Road/Boat
32	TINGIR		205	170		157	28	74		2	0	0	0	0		
		Mongu	72	93	Green River HC	72	15	34	15.11.17	1	0	0	0	0		Road/Boat
		Tingirapu	132	77	Green River HC	85	13	40	15.11.17	1	0	0	0	0	-	Road/Boat/1 Hr Trek
33	AMINI	Amini	293 293	364 364	Green River HC	393 393	61 61	195 195	15.11.17	1	1 1	0	0	4	BC Sandau	Road
34	SAMUN		471	334	Green (Wei 110	365	62	182	13.11.17	2	2	0	0	1	DC Candad	
		Samunai	300	276	Green River HC	288	49	141	15.11.17	1	1	0	0	1	BC Sandau	Road
		Green river H/Sch	171	59	Green River HC	77	13	41	15.11.17	1	1	0	0	0	BC Sandau	Road
35	MIARF		237	279		287	56	147		2	0	0	0	0		
		Akrani	96	160		28	6	14	13.11.17	1	0	0	0	0		Road/1 Hr Trek Road/1 Hr Trek
36	BIAKA	Miarfai	141 736	119 881	Green River HC	259 807	50 158	133 401	13.11.17	1 4	0	0	0	0		Ruau/THTTTEK
00		Biaka	297	352	Green River HC	321	60	161	14.11.17	1	0	0	0	0		Road
		Konabasi	286	358	Green River HC	342	65	168	14.11.17	1	0	0	0	0		Road
		Dauli	84	76	Green River HC	94	20	46	14.11.17	1	0	0	0	0		Road
		Ikasi	69	95	Green River HC	50	13	26	14.11.17	1	0	0	0	0		Road
			44.004	00.000		04.000	0.000	40.400		00	00	0	0	05	00	
		IO TOWN	14,394 14,394	20,292 20,292		21,006 21,006	3,338 3,338	10,106 10,106		26 26	26 26	6 6	0	25 25	26	
		Top Tower	1,263	1,046	РНО	956	143	454	13.11.17	1	1	0	0		adio Sanda	Ward 1
		Wedesco	851	725	PHO	903	151	430	13.11.17	1	1	0	0		adio Sanda	Ward 3
		Works Dept	545	692	PHO	835	128	394	12.11.17	1	1	0	0		adio Sanda	Ward 4
		Central Town	311	325	PHO	208	34	101	13.11.17	1	1	0	0		adio Sanda	Ward 3
		Dali	389	599	PHO PHO	486	69 84	231	13.11.17	1	1	0	0		adio Sanda	Ward 2 Ward 2
		Hausik CIS	699 174	264 137	PHO PHO	262 221	84 36	156 108	13.11.17 13.11.17	1	1	1	0		adio Sanda adio Sanda	Ward 2 Ward 2
		Palai Camp	340	425	PHO	474	88	241	13.11.17	1	1	0	0		adio Sanda adio Sanda	Ward 3
		DCA Sett.	127	391	PHO	524	86	250	10.11.17	1	1	0	0		adio Sanda	Ward 5
		CIS Point	212	294	PHO	85	12	40	10.11.17	1	1	0	0	1	adio Sanda	Ward 2
																Non Existant
		Wedesco Sett.	746	0	-								-			
		Wedesco Sett. Wesan Sett.	998	1,359	PHO	1,036	179	491	12.11.17	1	1	0	0		adio Sanda	Ward 4
		Wedesco Sett. Wesan Sett. Dasi Sett.	998 1,025	1,359 813	PHO PHO	1,274	188	611	12.11.17	1	1	0	0	1	adio Sanda	Ward 4
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett.	998 1,025 397	1,359 813 865	PHO PHO PHO	1,274 1,184	188 151	611 550	12.11.17 10.11.17		1 1	0	0	1 1	adio Sanda adio Sanda	Ward 4 Ward 5
		Wedesco Sett. Wesan Sett. Dasi Sett.	998 1,025	1,359 813	PHO PHO	1,274	188	611	12.11.17	1 1	1	0	0	1 1 1	adio Sanda	Ward 4 Ward 5
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett. Transmeter	998 1,025 397 690	1,359 813 865 1,652	PHO PHO PHO PHO	1,274 1,184 1,734	188 151 295	611 550 821	12.11.17 10.11.17 10.11.17	1 1 1	1 1 1	0 0 0	0 0 0	1 1 1 1	adio Sanda adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett. Transmeter Forestry Sawmill	998 1,025 397 690 714 200 1,482	1,359 813 865 1,652 1,845 648 1,744	РНО РНО РНО РНО РНО РНО РНО	1,274 1,184 1,734 1,557 964 2,199	188 151 295 266	611 550 821 740	12.11.17 10.11.17 10.11.17 10.11.17	1 1 1 1	1 1 1 1 1 1	0 0 1 0 1	0 0 0	1 1 1 1 1 1	adio Sanda adio Sanda adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5 Ward 5 Ward 5 Ward 6 Ward 7
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett. Transmeter Forestry Sawmill Salame 1 Wusipi Warastone	998 1,025 397 690 714 200 1,482 1,328	1,359 813 865 1,652 1,845 648 1,744 1,463	PHO PHO PHO PHO PHO PHO PHO PHO	1,274 1,184 1,734 1,557 964 2,199 1,468	188 151 295 266 144 317 239	611 550 821 740 460 1,066 713	12.11.17 10.11.17 10.11.17 10.11.17 09.11.17 09.11.17 09.11.17	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	0 0 1 0 1 0	0 0 0 0 0 0 0	1 1 1 1 1 1 1 1	adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5 Ward 5 Ward 6 Ward 7 Ward 6
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett. Transmeter Forestry Sawmill Salame 1 Wusipi Wusipi Warastone Wara kongkong 1	998 1,025 397 690 714 200 1,482 1,328 885	1,359 813 865 1,652 1,845 648 1,744 1,463 1,401	PHO	1,274 1,184 1,734 1,557 964 2,199 1,468 1,144	188 151 295 266 144 317 239 173	611 550 821 740 460 1,066 713 555	12.11.17 10.11.17 10.11.17 10.11.17 09.11.17 09.11.17 09.11.17 12.11.17	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	0 0 1 0 1 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1	adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5 Ward 5 Ward 6 Ward 7 Ward 6 Ward 6 Ward 4
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett. Transmeter Forestry Sawmill Salame 1 Wusipi Warastone Wara kongkong 1 Wara kongkong 2	998 1,025 397 690 714 200 1,482 1,328 885 269	1,359 813 865 1,652 1,845 648 1,744 1,463 1,401 628	PHO	1,274 1,184 1,734 1,557 964 2,199 1,468 1,144 842	188 151 295 266 144 317 239 173 115	611 550 821 740 460 1,066 713 555 401	12.11.17 10.11.17 10.11.17 10.11.17 09.11.17 09.11.17 09.11.17 12.11.17 12.11.17	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	0 0 1 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1	adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5 Ward 6 Ward 6 Ward 7 Ward 6 Ward 6 Ward 4 Ward 4
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett. Transmeter Forestry Sawmill Salame 1 Wusipi Wusipi Warastone Wara kongkong 1	998 1,025 397 690 714 200 1,482 1,328 885	1,359 813 865 1,652 1,845 648 1,744 1,463 1,401	PHO	1,274 1,184 1,734 1,557 964 2,199 1,468 1,144	188 151 295 266 144 317 239 173	611 550 821 740 460 1,066 713 555	12.11.17 10.11.17 10.11.17 10.11.17 09.11.17 09.11.17 09.11.17 12.11.17	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	0 0 1 0 1 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1	adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5 Ward 5 Ward 6 Ward 7 Ward 6 Ward 6 Ward 4
		Wedesco Sett. Wesan Sett. Pewi Sett. Transmeter Forestry Sawmill Salame 1 Wusipi Warastone Wara kongkong 1 Wara kongkong 2 Salame 2	998 1,025 397 690 714 200 1,482 1,328 885 269 37	1,359 813 865 1,652 1,845 648 1,744 1,463 1,401 628 368	PHO	1,274 1,184 1,734 1,557 964 2,199 1,468 1,144 842 357	188 151 295 266 144 317 239 173 115 50	611 550 821 740 460 1,066 713 555 401 172	12.11.17 10.11.17 10.11.17 10.11.17 09.11.17 09.11.17 09.11.17 12.11.17 12.11.17 09.11.17	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	0 0 1 0 1 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1	adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5 Ward 5 Ward 6 Ward 7 Ward 6 Ward 4 Ward 4 Ward 4 Ward 6
		Wedesco Sett. Wesan Sett. Dasi Sett. Pewi Sett. Transmeter Forestry Sawmill Salame 1 Wusipi Warastone Wara kongkong 1 Wara kongkong 2 Salame 2 Don Bosco H/Sch	998 1,025 397 690 714 200 1,482 1,328 885 269 37 21	1,359 813 865 1,652 1,845 648 1,744 1,463 1,401 628 368 502	PHO PHO	1,274 1,184 1,734 1,557 964 2,199 1,468 1,144 842 357 117	188 151 295 266 144 317 239 173 115 50 25	611 550 821 740 460 1,066 713 555 401 172 59	12.11.17 10.11.17 10.11.17 10.11.17 09.11.17 09.11.17 12.11.17 12.11.17 12.11.17 09.11.17 09.11.17	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 0 1 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	adio Sanda adio Sanda	Ward 4 Ward 5 Ward 5 Ward 5 Ward 6 Ward 7 Ward 7 Ward 6 Ward 4 Ward 4 Ward 4 Ward 6 Ward 6 Ward 7

						-										
LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2000	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
			Census													
		Banana Camp		1,147	PHO	1,275	209	619	10.11.17	1	1	0	0	1	adio Sanda	Ward 5
	SA RUR		8,823	11,076		10,400	1,879	4,943		44	7	0	0	0	0	
1	DAUND		849	1,088		1,006	187	492		4	4	0	0	0		
		Daunda	249	281	Imonda HC	292	47	140	12.11.17	1	1	0	0	0		Road
		Pos	365	342	Imonda HC	301	56	148	12.11.17	1	1	0	0	0		I Hr Trek
		Mol	216	295	Imonda HC	340	67	167	12.11.17	1	1	0	0	0		1 Hr Trek
-	014001	Imonda Govt.St	19	170	Imonda HC	73	17	37	12.11.17	1	1	0	0	0		Road
2	SMOCH		604	844	lana da UIC	855	138 41	409 123	40.44.47	3 1	0	0	0	0		Bood
		Watape 2 Smock	137 241	232 312	Imonda HC Imonda HC	261 318	41	123	13.11.17	1	0	0	0	0		Road Road
		Watape 1	241	312	Imonda HC	276	50	134	13.11.17 13.11.17	1	0	0	0	0		Road
2	NAMOL		558	608	Inonda HC	592	96	277	13.11.17	2	0	0	0	0		Rodu
3	INAMOL	Machendi	196	218	Imonda HC	221	37	106	13.11.17	1	0	0	0	0		Road/2hrs by track
		Namola	362	390	Imonda HC	371	59	171	13.11.17	1	0	0	0	0		Road/3hrs by track
4	DAUNC		502	534		551	86	265	10.11.17	2	0	0	0	0		read on by their
-7		Dauchendi	346	342	Wasengla HC	345	56	167	22.11.17	1	0	0	0	0		Road/trek
		Omol	155	192	Wasengla HC	206	30	98	22.11.17	1	0	0	0	0		Road/trek
5	EPMI		796	698		764	115	374		3	3	0	0	0		
5		Epmi	330	280	Wasengla HC	293	39	141	22.11.17	1	1	0	0	0		Road
		Netword 1	203	203	Wasengla HC	230	33	111	22.11.17	1	1	0	0	0		Road
		Netwond 2	263	216	Wasengla HC	241	43	122	22.11.17	1	1	0	0	0		Road
6	DOPON		768	820	Trabbilgia Tro	576	112	289		3	0	0	0	0		
		Dovnendi	459	514	Wasengla HC	92	24	48	22.11.17	1	0	0	0	0		Road
		Tokonendi	236	234	Wasengla HC	235	38	114	22.11.17	1	0	0	0	0		Road
		Wasengla	74	72	Wasengla HC	249	50	127	22.11.17	1	0	0	0	0		Road
7	WAIND		283	257		163	23	78		3	0	0	0	0		
		Ming	25	0	Wasengla HC					1	-	-	-	-		Non Existant
		Um	75	0	Wasengla HC					1						Non Existant
		Wainda	183	257	Wasengla HC	163	23	78	23.11.17	1	0	0	0	0		Road
8	HOLOS	SA	608	910	-	614	93	299		4	0	0	0	0		
		Holosa	209	550	Wasengla HC	208	33	104	23.11.17	1	0	0	0	0		Road/Trek
		Kwek	138	120	Wasengla HC	148	19	71	23.11.17	1	0	0	0	0		Road/Trek
		Sainidi	124	99	Wasengla HC	85	17	42	23.11.17	1	0	0	0	0		Road/Trek
		Swachketjil	137	141	Wasengla HC	173	24	82	23.11.17	1	0	0	0	0		Road/Trek
9	DAUND))	720	765		684	137	341		5	0	0	0	0		
		Daundi	82	146	Wasengla HC	163	25	78	23.11.17	1	0	0	0	0		Trek
		Pendesi	177	0	Wasengla HC	102	22	50	23.11.17	1	0	0	0	0		Trek
		Popan	234	184	Wasengla HC	174	37	92	23.11.17	1	0	0	0	0		Trek
		Swachbaru	149	321	Wasengla HC	121	29	59	23.11.17	1	0	0	0	0		Trek
		Yuhetla	78	113	Wasengla HC	124	24	62	23.11.17	1	0	0	0	0		Trek
10	TAMINA		633	557		705	101	341		5	0	0	0	0		
		Fas 2	190	282	Fas 2 AP	318	40	152	10.11.17	1	0	0	0	0		Road
		Nebike	211	114	Fas 2 AP	180	23	87	10.11.17	1	0	0	0	0		Road/Trek
		Tamina 1	135	50	Fas 2 AP	75	14	36	10.11.17	1	0	0	0	0		Road/Trek
		Tamina 2	97	57	Fas 2 AP	89	14	45	10.11.17	1	0	0	0	0		Road/Trek
	= 1 5 1	Munmei		53	Fas 2 AP	43	10	21	10.11.17	1	0	0	0	0		
11	FAS 1	E su t	651	2,279	E	2,254	424	1,077		6	0	0	0	0		De-d
		Fugeri	147	230	Fas 2 AP	233	32	114	11.11.17	1	0	0	0	0		Road
		Fugumui	503	223	Fas 2 AP	252	41	119	11.11.17	1	0	0	0	0		Road
		Kilifas		462	Fas 2 AP	421	62	202	11.11.17	1	0	0	0	0		Road
		Wase Maka Basa Camp		84 699	Fas 2 AP	70	10	34	11.11.17	1	0	0	0	0		Road Road
		Maka Base Camp			Fas 2 AP	805	186	393	11.11.17	1	0	0	0	0		
40	WAINA	Amanab 5/6 Base Camp	1,017	581 915	Fas 2 AP	473 842	93 197	215 308	11.11.17	1 2	0	0	0	0		Road
12	VVAINA	Sowanda	1, 0 17 533	915 605	Imonda HC	842 565	197 122	308 154	11.11.17	2	0	0	0	0		Road/ 1dayTrek
		Waina	369	311	Imonda HC Imonda HC	277	75	154	11.11.17	1	0	0	0	0		Road/ 1 day track
		Wana Wiala	115	0	Imonda HC Imonda HC	211	13	134	11.11.17		U	0	0	0		Non Existence
	PUNDA		836	800	monda Ho	794	170	393		2	0	0	0	0		NOT EXISTENCE
13				000		104		000		-		U U		,		
13	PUNDA	Punda	411	368	Imonda HC	367	83	182	11.11.17	1	0	0	0	0		Road/ 6 Hours trek