ROTARIANS AGAINST MALARIA



LONG LASTING INSECTICIDAL NET DISTRIBUTION REPORT

Enga Province

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

With Support From NDoH, Global Fund and Against Malaria Foundation

22 April to 4 June 2017



Summary

A survey and distribution of Long Lasting Insecticidal Nets (LLINs) to household level was carried out in the Enga Province 8 February to 5 May 2017.

This is the third time that Enga has received nets and the third time under RAM with Global Fund funding. In Round Three of the Global Fund, distributions were carried out in 2010. This initial distribution was coordinated by the Provincial Health Authority but in 2014 and now in 2017 these distributions of LLINs in Enga were carried out under the coordination of RAM with joint implementation together with the Enga Provincial Health Authority. In the first two distributions, all districts of Enga were given nets, but in 2017, due to funding shortages, only areas below 2000m were covered in nets which means that the whole of Kandep, and parts of Lagaip, Wabag and Kopiam were not covered.

It should also be noted that the nets for the 2017 distribution were funded through a donation of nets from the National Department of Health with the costs of distribution covered by Global Fund. This is also the third province to have a new survey verification process used after being previously tested in East New Britain and Milne Bay. This verification system was initiated by the Against Malaria Foundation who is now funding most of the LLINs for PNG.

Many parts of Enga lie above 2000m which are considered non-malarial and these areas account for 36% of the population of Enga. This programme is therefore covered an estimated target population of 252,878 out of 396,339 people in the province. From the estimated 2017 target population 252,878 (53,554 Kompiam, 67,048 Lagaip Porgera, 69,342 Wabag, 62,934 Wapenamanda), the project recorded within this targeted a population 259, 877 people (52,597 Kompiam, 70,163 Lagaip Porgera, 76,963 Wabag, 60,154 Wapenamanda). To this population were distributed 122,804 LLINs (25,330 Kompiam, 32,088 Lagaip Porgera, 36,034 Wabag, 29,352 Wapenamanda) giving an overall ratio of 47.3 LLINs distributed to every 100 people.

A further 848 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 cost of the programme was K418,004.78 Kina resulting in a cost of about 3.40 Kina or US\$1.08 per net delivered which was about 2% under the anticipated overall budget. However, not all areas were competed so the total expenditure should have been more. While most budget line items were under budget, car hire was 20% over, mainly caused by delays in getting nets in Enga on time.





Fig.1 – Getting There – Airplane To Iropino and Trekking In Iropino To Remote Villages.

The programme in Enga went very well in most areas however tribal fights were a huge problem in the Paella and Kompian areas. About 11,100 people were not reached in Paella and about 10,200 people in the Kompian areas. This is particularly critical as all these areas are in the worst affected malaria areas in the country. It is however unlikely that these areas can be done again until the end of the year.

Other than this, it can be said that support given by the provincial health authorities, the various health centres involved in the project and all community members was tremendous. Partners included the Provincial Government Health Services and church health services, particularly the Catholic, Baptist, Lutheran and Four Square Church Health Services. Many others assisted including teachers and head masters, village councillors, village leaders, Village Health Volunteers (VHV), and many others too many to mention who helped the programme in individual or collective ways.

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.

Schedule

This distribution took place in the eighth year in which RAM has been involved in the distribution of nets with Provincial Health Authorities in PNG. The first five years of this programme were referred to as the Round Eight Global Fund Programme and the last two years as the New Funding Model for which RAM has received three years funding for the Global Fund for the period 2015 to 2017.

Survey and distributions were carried out as per the table below. The first operation started in all accessible areas of all districts in Enga except Kandep at the same time. The second phase of the operation covered all the fly in areas of Enga which cover many of the low-lying areas of the province and mostly cover the northern border areas with East Sepik. It is stated by some people that of these border villages actually lie in East Sepik but are often considered Enga due to these villages speaking Engan language. East Sepik also claims these villages but gives them slightly different names but as they also lie on the Enga border, RAM covers all these villages at one time irrespective of whether they lie in East Sepik or Enga.

<u>Table One</u> <u>General Timetable Of Activities In Enga</u>

	Sur	/ey	Distribution			
District	Start	Finish	Start	Finish		
Kandep	Not done					
Kompiam	26.04.17	30.04.17	09.05.17	17.05.17		
Lagaip Porgera	27.04.17	05.05.17	09.05.17	14.05.17		
Wabag	24.04.17	30.04.17	09.05.17	22.05.17		
Wapenamanda	26.04.17	12.05.17	12.05.17	18.05.17		
Kompian Fly In Areas Of Kompiam, Wabag and Lagaip Porgera	25.05.17	30.05.17	31.05.17	04.06.17		

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 a mandate to work in malaria control in Papua New Guinea and has been working for many years with the National Department of Health (NDOH) and other partners including bilateral agencies such as UNICEF and WHO (World Health Organisation), NGOs and church groups.

RAM's most prominent activity during the early part of its existence has been in the supply of mosquito nets to the both commercial and NGO other partners on a cost recovery basis throughout PNG. In this respect, RAM was also a major partner to the NDOH during the Global Fund Round Three programme in the country. During this programme, RAM procured and delivered Long Lasting Insecticidal Nets (LLINs) to every province (and district where possible) in the country from 2004 to 2008 sufficient to cover 80% of the population. These nets were then delivered to household level by provincial health authorities.

For a variety of reasons, in 2009, the National Department of Health requested RAM to take over the coordination of the distribution of LLINs throughout PNG. Since 2010, RAM has coordinated the procurement and distribution of LLINs to provincial and district level throughout the country. However, for the distribution of nets to household level this has been jointly implemented with provincial, district and church health services. Between 2010 and 2016, RAM has coordinated the distribution of 7.5 million nets to household level and a further 1.1 million nets to pregnant women mothers and other vulnerable groups such as boarding students and inmates or correction centres.

RAM was awarded another three year contract by the Global Fund (known as the New Funding Model (NFM)) which will expire at the end of 2017 with a further contract now expected to cover the period 2018 to 2020. The contract is to continue with the coordination of the distribution of LLINs throughout PNG.



Fig.2 Training Of Volunteers In Kompiam (Left) and Sopas (Right)

For the New Funding Model of 2015 to 2017, Global Fund cut their funding which forced the National Department of Health to stratify the distribution of LLINs in different parts of PNG as there was no longer enough funds to cover all parts of the country. This stratification was based on malaria epidemiology and ease of access to health services. As a result of this PNG was divided into four 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 which have high malaria endemicity and poor access to health continue to have household distributions,

- c) 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 areas will now have nets given to under five children where funds are not available, and
- d) In urban and peri-urban areas such as Port Moresby and Lae which lie in low lying areas where access to health is considered easy, no distribution or perhaps under five distributions will be carried out when funds are in short supply.

Unfortunately, Enga comes completely under Zone a, b and c which means it has areas which lie above 2000m which do not have malaria but also have very low lying endemic areas of malaria. This means that areas in Zone a did not receive nets in this distribution and other areas received at the rate of approximately one net for every two people. Refer to Fig.12 to see the altitudes in Enga and which areas are above 2000m.

However, it should be noted that for 2015 and 2016, many districts in the highlands either did not receive nets if they were high altitude or had under five campaigns, particularly in the areas between 1600 – 2000m though some areas below this altitude were also affected. Funding shortages were even more acute for 2017.

During 2016, RAM has been very fortunate to get further funding from a British NGO called Against Malaria Foundation (AMF). In this agreement, AMF will purchase nets for PNG and the Global Fund will pay for their distribution. This has meant that in 2017, all targeted areas, except for those above 2000m such as in Kandep in Enga Province will receive full household coverage.

One of the conditions of the AMF donation is that RAM would strengthen the way in which surveys are carried out. These new processes are described in the Methodology Section and Enga is the third province where this new system was put into action even though in reality, the nets being used in Enga were donated by the National Department of Health but it was felt better to remain with this improved method of verification.

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

The processes used by RAM include recording all family members by name, age, sex and relationship to household as well as giving each household surveyed a white receipt that confirms that they have been surveyed. One of the new innovative practices now being introduced is that surveys are carried out by village volunteers who before submitting lists for distribution of nets, must hang a summary of all the households they have surveyed in a public place so the villagers can see how many people have been recorded in each household. This is to ensure that everyone has been included and that non-existent people have not been included. This process is further strengthened by 5% of all households in each village being randomly resurveyed to verify that the survey volunteer has done their job properly.

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 distribution of Round Three, nets were allocated at a rate of one net to every 2.5 people. With the programme only receiving 80% of 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 does not happen by collecting all population information first and then allocating the nets based on needs as well as availability

of nets to ensure that all families receive nets throughout any given province. The only scenario where survey and net distribution may be simultaneous is in very remote locations where it is not practical to return 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.





Fig.3 - Training Of Volunteers In Muritaka (Left) and Kompiam (Right)

Methodology

Prior to planning and all implementation, a master list of villages of Enga was drawn up using data from the 2000 Census. Villages in the list are organised by LLG and Ward. In this master list, the estimated population for 2016 for each village is recorded which is estimated from the 2000 Census figures and the estimated annual growth rate for Enga and also compared with previous surveys carried out by RAM in 2010 and 2013. With this data, the project manager of RAM worked together with the Provincial Health Office to create a budget and have a planning outline for the programme throughout the province. Much of the planning was the allocation and transport of nets to each of the health centres involved in the programme.

In terms of all further coordination and planning, the RAM teams worked in close coordination with the Provincial Health Team of Enga. Jointly the main health facilities in each Local Level Government (LLG) areas (whether government or Church Based) were selected from which operations would be carried out. Each health facility identified staff members or non-health volunteers to be involved with the programme and these became the District Health Team (DHT) if health staff or team leaders (if not health staff) responsible for the survey and distribution of nets. Each DHT and team leaders worked in the area in which the health facility was based.

Using the master list of villages, it was possible to group all villages into areas to be covered by each health centre and estimate the number of teams and DHTs needed at each health centre to carry out the work. The RAM project officers were then assigned to specific health centres with whom they would work with to facilitate the household survey and the LLINs distribution in each LLG.

Before any activities take place, RAM officers are expected to work with health staff and other team leaders to make detailed plans of their activities for training, survey, verification and distribution of nets. This 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, 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 one-day training meeting is normally held at each health facility for all DHT members in that area who together carry out a 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 level. RAM officers also have the responsibility to ensure the LLINs operation kept in line with the original micro-plan and 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 a 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 if the work has been carried out correctly.
- 5) For each household surveyed, all family members who normally resided 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 house 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 are 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 are 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.

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 team leaders of the DHTs. This document also provides the projected population per census unit as well as other information which might be useful to the area concerned.

After getting 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.





Fig.4 Distribution In Yengis (Left) And Lapalama (Right)

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. 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 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 with a district code printed on each net e.g. ENG17 for Enga 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 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, that due to the very remote locations found in some LLGs of the province, surveys and distributions took place at more or less the same time in some places. 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 to pre-allocate nets to these areas. 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 Enga Province, all LLINs were delivered to Lae by ship from Vietnam (via Singapore) where they were custom cleared. The nets were transported to Mount Hagen from where they were then sent to Enga. In totals seven containers of nets were used to bring nets

to Enga. Of these, one container was transported to Porgera, two to Wabag and two to Wapenamanda. Two of the containers remained in Mount Hagen for the fly in areas, and container was emptied in Mount Hagen as it could not be transported to Enga in the time frame needed by the transport company.

Results

Many parts of Enga lie above 2000m which are considered non-malarial and these areas account for 36% of the population of Enga. This programme is therefore covering an estimated target population of 252,878 out of 396,339 people in the province. From the estimated 2017 target population of 252,878 (53,554 Kompiam, 67,048 Lagaip Porgera, 69,342 Wabag, 62,934 Wapenamanda) people, the project recorded within this targeted a population 259,877 people (52,597 Kompiam, 70,163 Lagaip Porgera, 76,963 Wabag, 60,154 Wapenamanda). To this population were distributed 122,804 LLINs (25,330 Kompiam, 32,088 Lagaip Porgera, 36,034 Wabag, 29,352 Wapenamanda) giving an overall ratio of 47.3 LLINs distributed to every 100 people.

TABLE TWO
Nets Distributed At District Level In Enga

District	Population Of Targeted Areas In 2014	Total Estimated Population 2017	Target Population 2017	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017	Growth Rate Against 2013 Survey	Nets Distributed Per 100 People
Kandep		59,757	0	N	lot Done Due	To Being At I	High Altitud	е
Kompiam	50,022	60,492	53,554	52,597	10,367	25,330	1.69	48.2
Lagaip Porgera	62,627	128,057	67,048	70,163	10,917	32,088	3.86	45.7
Wabag	64,770	78,099	69,342	76,963	13,872	36,034	5.92	46.8
Wapenamanda	58,784	69,934	62,934	60,154	12,250	29,352	0.77	48.8
Totals	236,203	396,339	252,878	259,877	47,406	122,804	3.24	47.3

Table Two shows a summary of the population and nets distributed by district during this distribution and Table Three shows distribution by LLGs. Table Two also shows the population surveyed in 2013 and from this it can be calculated the annual growth rate of each and LLG. Based on the growth rates recorded, growth from 2013 to 2016 was more than expected so the present growth rate needs to be revised. Table Three clearly shows population movement into Wagab Urban and into Porgera mine areas. The negative growth shown in Kompiam and Paella is only a result of areas not being covered due to tribal fights. More strangely though is the apparent negative growth in Wapenamanda in Wapenamanda Rural while showing an increase of growth in Tsiak Rural. Rural to urban drift can also be noted in the Maramuni Rural of Wabag District. This area has very few services and is cut off from the rest of the province except by plane or long trekking journeys.

A further 848 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 distribution of these nets can be seen in Table Four.

Referring to Table Five it can be seen that the overall cost of the programme was K418,004.78 Kina resulting in a cost of about 3.40 Kina or US\$1.08 per net delivered which was about 2% under the anticipated overall budget. However, not all areas were competed so the total

expenditure should have been more. While most line items were under budget car hire was 20% over mainly caused by delays in getting nets in Enga on time.

TABLE THREE
Nets Distributed At LLG Level In Enga

LLG	District	Population Of Targeted Areas In 2014	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017	Growth Rate Against 2013 Survey	Nets Distributed Per 100 People
Ambum Rural	Kompiam	18,986	23,671	4,758	11,391	7.63	48.1
Kompiam Rural	Kompiam	25,053	21,765	4,023	10,438	-4.58	48.0
Wapi Yengis Rural	Kompiam	5,983	7,161	1,586	3,501	6.17	48.9
Maip Muritaka Rural	L Porgera	21,555	25,986	4,505	12,341	6.43	47.5
Paiela	L Porgera	10,428	753	110	370	-58.36	49.1
Porgera Rural	L Porgera	30,644	43,424	6,302	19,377	12.32	44.6
Wabag Urban	Wabag	6,996	8,278	1,242	3,634	5.77	43.9
Wabag Rural	Wabag	48,301	59,460	10,850	27,816	7.17	46.8
Maramuni Rural	Wabag	9,473	9,225	1,780	4,584	-0.88	49.7
Wapenamanda Rural	Wapenamanda	41,056	40,107	8,146	19,656	-0.78	49.0
Tsak Rural	Wapenamanda	17,728	20,047	4,104	9,696	4.18	48.4
Totals		236,203	259,877	47,406	122,804	3.24	47.3

TABLE FOUR Nets Donated To Health Centres

District	LLG	НС	Donated
Kompiam	Wapi Yengis Rural	Iripino AP	15
Kompiam	Wapi Yengis Rural	Yambaitok AP	85
Wabag	Wabag Rural	Sopas	80
Wabag	Maramuni Rural	РНО	516
Wapenamanda	Tsak Rural	Pumakos HC	152
Final			848

TABLE FIVE Cost Of Programme In Enga

Budget Line	Budget	Actual	Variances	% Variance
Human Resources	K162,830.00	K144,361.95	K18,468.05	88.7
Fuel Cost	K29,988.00	K28,459.27	K1,528.73	94.9
Car Hire Cost	K176,400.00	K213,600.00	-K37,200.00	121.1
Aircraft Hire Cost	K33,000.00	K18,408.75	K14,591.25	55.8
Stationeries/Supplies	K3,000.00	K4,094.47	K3,000.00	136.5
5% Contingency	K20,260.90	K9,080.34	K20,260.90	44.8
Totals	K425,478.90	K418,004.78	K7,474.12	98.2

The project also looked at radio or cell telephone coverage in the different parts of Enga. Referring to Table Six, the data suggests that coverage of both cell networks and radio is generally poor in Enga particularly in places like Lagaip Porgera. This situation does not allow for easy dissemination of health or other types of message to the rural villages of the province particularly in the remote areas of the province.

The support given by the provincial health authorities, the various health centres involved in the project and all community members was tremendous. Partners included the Provincial and Regional Government Health Services and church health services, particularly the Catholic, Baptist, Lutheran and Four Square Church Health Services. Many others assisted including teachers and head masters, village councillors, village leaders, Village Health Volunteers (VHV), and many others too many to mention who helped the programme in individual or collective ways.

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 always 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.

Overall therefore it can be said that the programme in Enga has been successful.

TABLE SIX Cell and Radio Coverage In Enga

District	Villages	House Holds Surveyed	Digicel	Bmobile	City Phone	Houses with Radios	Villages With Radio Networks
Kompiam	133	10,367	121	0	1	1,854	130
Lagaip Porgera	89	10,917	73	41	0	425	49
Wabag	140	13,872	129	19	0	5,459	120
Wapenamanda	113	12,250	111	19	0	3,399	67
Total	475	47,406	434	79	1	11,137	366

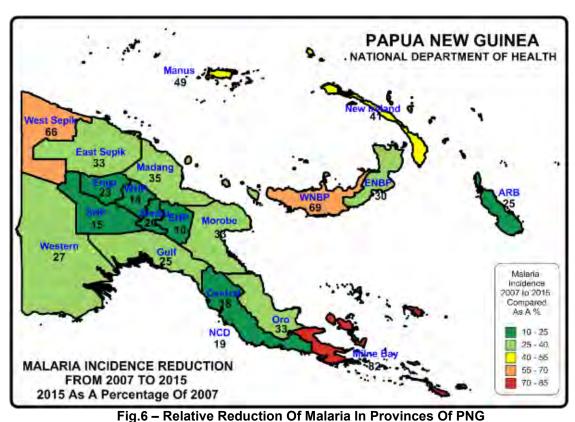


Fig.5 - Distributions In Sopas

Observations

• Fig.6 shows the decrease of malaria from 2007 to 2015 in all provinces, Fig. 7 shows the actual malaria incidence in Enga compared with other provinces and Fig.8 shows annual malaria trends from 2012 to 2016. In Enga it can be seen from Fig.6 that malaria decreased from 2007 to 2015 by only 77% which is one of the highest reductions of malaria in the country. This is also reflected in Fig.7 which shows that the incidence of malaria in Enga is only 15 per 1000 people which is the lowest in the country in 2015. Fig. 8 and Fig.9 shows that the incidence of malaria in Enga has been continually low and fell even further

following the LLIN distribution in 2014. Data analysis also from other sources also show that the majority of malaria cases in Enga Highlands are adults which indicates that most malaria cases are imported except for the low lying areas in Kopiam and Lagain Porgera in such areas as Paella.



rig.6 – Relative Reduction Of Malaria in Provinces Of PNG

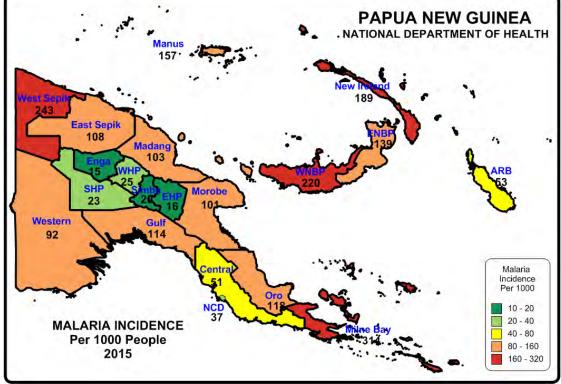


Fig.7 - Reported Malaria Incidence In 2015

- From Fig. 10 it can also be calculated that 1.5% of the population of Enga live below 1200m altitude where malaria can be considered highly endemic and stable. A further 28% of the population live in the zone between 1600-2000 metres were *P. vivax* is the only parasite believed to be found at these altitudes.
- Overall, except in the border low lying areas, malaria should not really be considered a
 problem in Enga and this further distribution of nets should increase the protection of the
 population from malaria being reintroduced into the province. Nevertheless, Enga is
 surrounded by low lying areas, particularly on its northern and western borders where
 malaria control is extremely difficult due to access issues and tribal fighting as experienced
 on this recent distribution.
- The major challenge other than tribal fighting to the distribution of nets in Enga as in other provinces in previous years has been the weather and particularly the poor infrastructure in the remoter areas of the province.

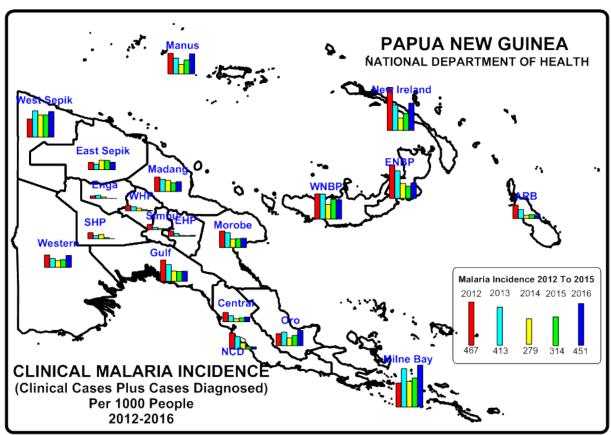


Fig. 8- Reported Malaria Incidence In PNG From 2012 To 2016

- Enga represents also the third province in which the new survey methodologies are being carried out. While some initial problems have been experienced with verification of survey volunteers, in general, it can be said that the new process has been welcomed by RAM officers and villagers alike.
- The very positive aspect of Enga from a RAM perspective was the incredibly good support received by the provincial and health centre staff who assisted to make the project work efficiently and quickly. In terms of budget, the lessons learnt in other provinces allowed a much closer monitoring of the budget in Enga through the decentralising of funding and net allocation. In this respect, each LLG of Enga was treated as a separate financial unit which gave much more accountability. The very positive results of this is that the programme generally worked within budget and only a few nets remained unaccounted for at the end of the programme.
- However, despite all these difficulties, overall the project received positive comments from the provincial health office including those who had been involved in previous distributions

in the province. It was generally felt that the system being advocated by RAM is transparent and fair. Though as always, some families did not feel they received as many nets as they thought they deserved. However, overall, it is felt that the programme managed to reach practically every household in the province except those mentioned above.

Conclusions

Overall it can be said that the project was a success both in terms of results and joint coordination of the project by RAM field staff members together with district health staff and Catholic, Baptist, Lutheran and Four Square Church Health Services 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. One result of this is that RAM officers generally received far less complaints at the time of distribution than they have done in the past.

As with other provinces in the country where RAM has operated in over the last seven years, the methodologies used 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.

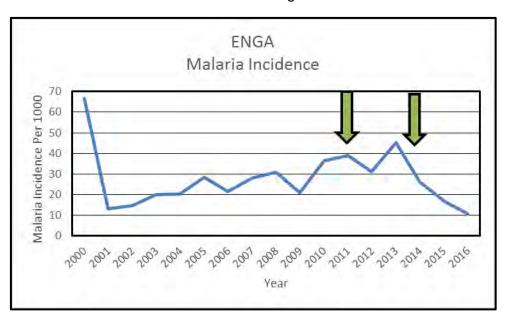


Fig. 9 – Malaria Incidence Versus Distribution Of Nets (Green Arrows Represent Years Of Distribution)

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 Census Lists also from 2000 are also very important to ensure that survey teams reach 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, DHTs of Enga 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 encountered.



Fig.10 - Distributions In Kompiam (Left) and Sopas (Right)

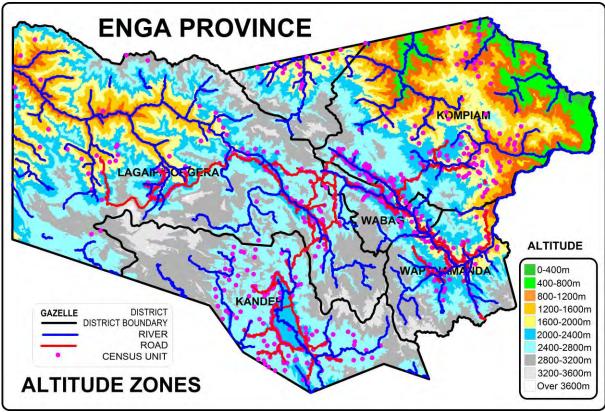


Fig.11 - Altitude Zones Of Enga

It is hoped that most of general problems encountered in the field are now familiar to RAM teams and as the teams move into other provinces, RAM officers become facilitators rather than implementers. This allows for much of the work to be carried out by District Health Teams. This will allow the survey and distribution of nets to occur much quicker even though it does mean that RAM officers may not have the same oversight as when they are more intimately

involved with the project in carrying out the activities themselves. However, getting a balance of close supervision by RAM officers of activities and allowing activities to be carried out by others will be an ongoing challenge in the future. One process slows down the distribution time while the other speeds it up finding the right balance will be a challenge as this project continues.

Partners Involved In The Distribution

Partners:

- 1. Provincial and Regional Health Officers
- 2. Catholic, Baptist, Lutheran and Four Square Church Health Services.
- 3. Health facility health staff.
- 4. Teachers and Head Masters
- 5. Village Councillors/Peace Officers/ Chiefs/Youths
- 6. Village Health Volunteers (VHV)
- 7. All the Communities in the district

Acknowledgements

Rotarians Against Malaria would particularly like to thank Mr. Aaron Luai (Chief Executive Officer) and his team with special thanks to Betty Koko (Director of Public Health), Likas Lakain (Provincial Disease Control Officer) and Alupa Ruma (Provincial Malaria Supervisor) for their excellent support and help throughout the distribution in Enga. Without their assistance, this programme would not have been possible.

We would also like to thank all the health staff in various health centres who assisted in the programme. Below is a list of people specifically mentioned by RAM officers but there are a large number of other health staff and team leaders too many to mention who assisted with their time and help throughout the survey and distribution period.

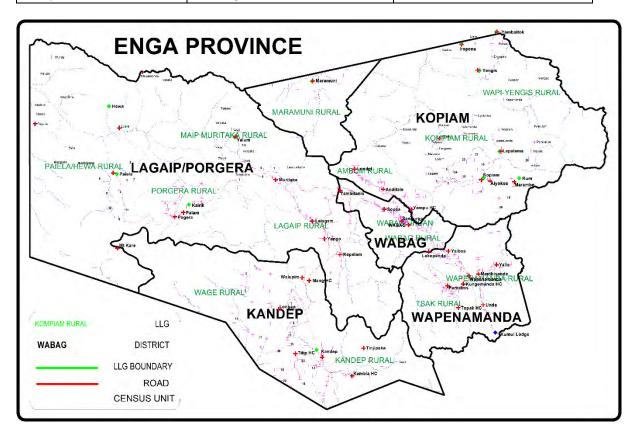
To the church partners, RAM would like to sincerely thank the Catholic, Baptist, Lutheran and Four Square Church Health Services for supporting RAM through its health services in their respective health centres.

RAM would also like to thank all the community members who welcomed RAM officers and health staff into their villages and assisted in making the programme work.

ACKNOWLEDGEMENT LIST – ENGA PROVINCE 2017 ANNEX ONE - Map Of Enga Showing Census Points Of 2000 Census

NAME	OCCUPATION	INSTITUTE
Tim Poi	District Health Officer	Enga Provincial Health Office
Mr. Jerry Tumu	District Health Officer - Laiagam	Laiagam District
Jessie James	Officer In Charge	Kungumanda Health Centre
Gabriel Pala	Officer In Charge	Yalis Health Centre
Newton Leap	Officer In Charge	Kaipre Health Centre
Nylio Tumbo	Sister In Charge	Unda Health Centre
Paul Wetau	Community Health Worker	Topak Health Centre
Paul Kita	Officer In Charge	Pumakos Health Centre
Mr. Simeon	Elementary Care Taker	Hewa Elementary School
Mrs Noreeen John	Sister In Charge	Sopas Hospital

Mr. Isaac Traima	Community Health Worker	Sopas Hospital
Rhonda Roma	Nursing Office	Malumanda Health Centre
Mr. Nickson Yapara	Deputy Headmaster	Yangis Primary School
Titipu Nele	Pastor	Iripino Village Church
John Amba	Officer In Charge	Mambisanda Health Centre
Mrs Betty Isaac	Community Health Worker	Maramuni Health Centre
Manuel Are	Senior Nursing Officer	Yampu Health Centre
Meck Weo	Community Health Worker	Yampu Health Centre
Paul Buka	Officer In Charge	Kasi Health Centre
John Ten	Officer In Charge	Anditale Health Centre
Jerry Maku	District Health Manager	Pogera District
Samson Yungu	Community Health Worker	Pogera Urban Clinic
Mr. Heddie Meka	Community Health Worker	Pogera Urban Clinic
Mr. Wai Puri	District Health Manager	Laiagap District
Mr. Newman Tanyo	Nursing Officer	Muritaka Health Centre
Mary Tolo	Nursing Officer	Muritaka Health Centre



OTHER PHOTOGRAPHS



Car And Road Problems In Kompiam



Unloading A Container In Porgera To Pull It Off The Truck (Left) Distribution Im Kompaim (Kompiam)



Distributions In Sopas (Left) And Hewa (Right)

OTHER PICTURES







ANNEX TWO

ENGA PROVINCE KOMPIAM DISTRICT POPULATION 2017 LLIN DISTRIBUTION SUMMARY SHEET

_LG	WARD	VILLAGE	Estimated 2017 Population Based On Census	Estimated 2017 Population Based On 2014 Census	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
	IPIAM		60,492	60,492		52,597	10,367	25,330		121	0	1	1,854	130	
	PAR	URAL	21,502	20,326		23,671 1,738	4,758 358	11,391 811		52 3	0	0	867 96	52	
		Par	1,344 733	1,791 900	Yampu HC	971	200	453	16.05.17	1	0	0	0	NBC	30 Min Trek
	1	Kaumanda	527	588	Yampu HC	629	118	289	16.05.17	1	0	0	69	NBC	30 Min Trek
	_	Par Mission /School	85	303	Yampu HC	138	40	69	16.05.17	1	0	0	27	NBC	30 Min Trek
2	RAKAP	OS	1,249	2,130		3,334	650	1,567		3	0	0	43		
		Rakapos	643	1,210	Yampu HC	1,732	400	826	16.05.17	1	0	0	25	NBC	One book missing/Lost
		Takawas	265	694	Yampu HC	751	100	344	16.05.17	1	0	0	0	NBC	Trek
_	YAMBL	Wambup	341 907	227 1,177	Yampu HC	851 1,124	150 223	397 541	16.05.17	3	0 0	0 0	18 34	NBC	Trek
3		Yambu	269	282	Yampu HC	484	79	232	16.05.17	1	0	0	26	NBC	Road
	_	Liumanda	302	410	Yampu HC	432	90	208	16.05.17	1	0	0	8	NBC	Road
		Tinja	337	485	Yampu HC	208	54	101	16.05.17	1	0	0	0	NBC	Road
4	TIALIPO		1,058	1,416		1,090	225	552		3	0	0	23		
		Tialipos	382	490	Yampu HC	388	76	192	18.05.17	1	0	0	7	NBC	Road
	-	Awalemanda	307	464	Yampu HC	251 451	58	133	18.05.17	1	0	0	4	NBC	Road
F	AIMATE	Yangelelyo	368 1,247	462 1,428	Yampu HC	2,365	91 450	227 1,152	17.05.17	3	0 0	0 0	12 85	NBC	Road
0		Aimates	1, 24 7	1, 428 519	Yampu HC	998	200	469	15.05.17	1	0	0	27	NBC	One book missing/Lost
		Meriamanda	252	676	Yampu HC	812	150	407	15.05.17	1	0	0	33	NBC	Road
		Pokari	247	233	Yampu HC	555	100	276	15.05.17	1	0	0	25	NBC	Road
6	TALEM	ANDA	622	896		1,665	292	772		3	0	0	53		
		Talemanda	326	495	Yampu HC	431	100	211	13.05.17	1	0	0	0	NBC	Road
		Apumanda	150	217	Yampu HC	732	100	327	13.05.17	1	0	0	49	NBC	Road
		Kapapus (Kapopais)	146	184	Yampu HC	502 700	92 184	234 352	13.05.17	3	0 0	0 0	4	NBC	Road
	PALIME	Palimb	866 284	894 337	Anditale HC	190	60	103	13.05.17	1	0	0	20	NBC	Road
		Sambaias	236	444	Anditale HC	415	100	198	13.05.17	1	0	0	1	NBC	Road
	1	Kondaip	347	112	Anditale HC	95	24	51	13.05.17	1	0	0	13	NBC	Road
8	PANDA		745	822		1,243	246	622		3	0	0	3		
		Pandai	165	195	Anditale HC	355	50	169	13.05.17	1	0	0	0	NBC	Road
		Nomal	327	308	Anditale HC	414	100	212	13.05.17	1	0	0	0	NBC	Road
		Kundis	252	319	Anditale HC	474	96	241	13.05.17	1	0	0	3	NBC	Road
9	KASI	Kasi	1,098	848 282	Anditale HC	1,356 455	309 109	688 241	14.05.17	1	0	0	104 14	NBC	Road
		Yukumanda	292 362	270	Anditale HC	449	109	219	14.05.17	1	0	0	61	NBC	Road
		Isamanda	445	297	Anditale HC	452	100	228	14.05.17	1	0	0	29	NBC	Road
10	LAKUI		435	472		480	100	234		1	0	0	0		
		Lakui	334	278		480	100	234	11.05.17	1	0	0	0	Radio Enga	Done from Sopas Hosp.
		Yalepos	101	194	Anditale HC										Included under Lakui
11	LAKAM		450	830	A1:4-1- 110	808	179	411	110517	2	0	0	3	NDO	Deed
		Lakamanda Palope	289 161	542 288	Anditale HC Anditale HC	446 362	109 70	224 187	14.05.17 14.05.17	1	0	0	3	NBC NBC	Road Road
12	TSIKIR		1,004	1,173	Andraie no	923	182	464	14.05.17	3	0	0	21	NBC	Noau
		Tsikiro	393	332	Anditale HC	373	71	176	14.05.17	1	0	0	0	NBC	Road
		Kipipres	557	601	Anditale HC	450	90	239	14.05.17	1	0	0	4	NBC	Road
		Tsikiro Mission & Community Sc	55	241	Anditale HC	100	21	49	14.05.17	1	0	0	17	NBC	Road
13	-	(TSIKIRO)	1,015	1,026		959	158	427		3	0	0	25		
		Nailya	248	179	Anditale HC	274	41	121	15.05.17	1	0	0	11	NBC	Road
		Porea	564 203	471 376	Anditale HC Anditale HC	379 306	71 46	165 141	15.05.17 15.05.17	1	0	0	0 14	NBC NBC	Road Road
1/	ANDITA	Porea	1,037	1,452	Anulale HC	1,542	287	727	10.05.17	4	0 0	0 0	0	INDC	Nuau
14		Saka	430	377	Anditale HC	663	150	327	15.05.17	1	0	0	0	NBC	Road
		Tongemas	237	474	Anditale HC	368	66	170	15.05.17	1	0	0	0	NBC	Road
		Malyanda	284	448	Anditale HC	426	53	192	15.05.17	1	0	0	0	NBC	Road
		Anditale Stn. School	86	153	Anditale HC	85	18	38	15.05.17	1	0	0	0	NBC	Road
15	ANDITA		524	116		233	51	108		2	0	0	8		
		Kepondi	356	116		98	17	43	15.05.17	1	0	0	0	NBC	Road
16	OMAIN	Paimanda	168 869	1, 502	Anditale HC	135 1,403	34 303	65 662	15.05.17	1 5	0 0	0	8 13	NBC	Road
10		Ambolam	338	1, 502 473	Anditale HC	228	59	108	15.05.17	1	0	0	0	NBC	Road
		Waima	141	216	Anditale HC	400	60	185	15.05.17	1	0	0	0	NBC	Road
		Walugu	209	301	Anditale HC	268	66	126	15.05.17	1	0	0	0	NBC	Road
		Kiakai	181	256	Anditale HC	258	60	126	15.05.17	1	0	0	13	NBC	Road
		Omain		256	Anditale HC	249	58	117	15.05.17	1	0	0	0	NBC	Road
17	MONO		667	1,041		1,720	276	814		3	0	0	37		
		Monokam	409	636		833	145	403	17.05.17	1	0	0	18	NBC	Road
		Yakanda Monokam School & A/P	237 20	314 91	Anditale HC Anditale HC	597 290	81 50	274 137	17.05.17 17.05.17	1	0	0	0 19	NBC NBC	Road Road

	LLG	WARD	VILLAGE	Estimated 2017 Population Based On Census	Estimated 2017 Population Based On 2014 Census	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
Description																
To Common																
March 202	19	KUPIN	Wakombi			Lonidorrio	High Altitud	e - Not Don	e							rtoud
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Description			Mulilama	284		Lomdol HC										Road
Tell																
Lender Inc.	20	KANON		-		Lomdol HC	High Altitud	e Not Don	0							Road
Segment	20	KANON				Lomdol HC	rigii Ailituu	e - Not Don	e							Road
2 SAGUE 97																
			Kupala	173		Lomdol HC										Road
	21	KAMUS					High Altitud	e - Not Don	е							
	_															
Description Property Proper																
March Marc	22	LONDO	L				High Altitud	e - Not Don	е							
Name	<u> </u>															
Dept. Dept	-															
Text	1															
Separate 958	23	ELAKA		-			High Altitud	e - Not Don	е							
Designation				351												
22 PERS MARAMAN 881			·													
STAPALIMAM		DENE				Lomdol HC	Little Alata al	- Net Dec								Road
25 YARIJAMAN	24	PENEI	,			Lomdol HC	High Altitud	e - Not Don	е							12 hours trekk
Vandamma	25	YARUL			1.313	London	988	285	487		2	0	0	299		12 Hours treat
Manager 1,450 1,						Yampu HC	515	150	253	17.05.17	1	0	0	150	NBC	Road
1 SIMN			Laumanda	373	758	Yampu HC	473	135	234	17.05.17	1	0	0	149	NBC	Road
1 SIMN																
Silm			JRAL				-	-	-						54	
Color	_	OILIW	Silim			Yampu HC2				12.05.17					NBC	Road/Trek
Birig			Laep			Yampu HC2	613	127			1	0	0	0		Road/Trek
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Sauanda		CALIAN				Aiyokos HC				09.05.17					NBC	Road
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SAIYULUTES									_							
Alyulities				569	137	Aiyokos HC	144	24	67	12.05.17		0	0	22	NBC	Road
Repakanda	5								_							
Pomanda	<u> </u>		,			,										
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14 LAIAGAM 510 678 Image: Control of the control of	10	KOMPI. IMBILIK KAIPUF WAIBU KAINDA	Alukupais AM STATION Kompiam Mission /Hosp Imbilik RES Kaipures Pakau KAM Waibukam Laialam AN Yulip Kaindan	326 718 718 536 536 596 229 367 951 423 528 630	291 829 829 499 493 168 234 860 315 545 792 385	Kompiam HC	Not Done D	ue to Tribal	Fight Fight Fight Fight Fight Fight Fight Fight							Road 30 Min Trek 1 Hr Trek 1 Hr Trek Road Road Road
Laiagam 128 151 Kompiam HC Not Done Due to Tribal Fight Road	10	KOMPL IMBILIK KAIPUF WAIBU KAINDA	Alukupais AM STATION Kompiam Mission /Hosp (Imbilik RES Kaipures Pakau KAM Waibukam Laialam AN Yulip Kaindan DS	326 718 718 536 536 596 229 367 951 423 528 630	291 829 829 499 499 403 168 234 860 315 545 792 385 407	Kompiam HC	Not Done D	uue to Tribal	Fight Fight Fight Fight Fight Fight Fight Fight Fight							Road 30 Min Trek 1 Hr Trek 1 Hr Trek Road Road Road Road Road
	9 10 11 12	KOMPI. IMBILIK KAIPUF WAIBU KAINDA	Alukupais AM STATION Kompiam Mission /Hosp (Imbilik RES Kaipures Pakau KAM Waibukam Laialam AN Yulip Kaindan OS Winikos	326 718 718 536 536 596 229 367 951 423 528 630 831	291 829 829 499 499 403 168 234 860 315 545 792 385 407 353	Kompiam HC	Not Done D	uue to Tribal	Fight Fight Fight Fight Fight Fight Fight Fight Fight							Road 30 Min Trek 1 Hr Trek 1 Hr Trek Road Road Road Road Road
Leonison OUT 201 Northean Figure Date to Tribat Figure Nota	9 10 11 12	KOMPI. IMBILIK KAIPUF WAIBU KAINDA	Alukupais AM STATION Kompiam Mission /Hosp (Imbilik RES Kaipures Pakau KAM Waibukam Laialam AN Yulip Kaindan OS Winikos	326 718 718 536 536 596 229 367 951 423 528 630 821 821 510	291 829 829 499 499 403 168 234 860 315 545 407 353 3658	Kompiam HC	Not Done D Not Done D	uue to Tribal	Fight							Road 30 Min Trek 1 Hr Trek 1 Hr Trek Road Road Road Road Road Road

LLG	WARD	VILLAGE	Estimated 2017 Population Based On Census	Estimated 2017 Population Based On 2014 Census	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Lipares	75		Kompiam HC	Not Done D	ue to Tribal	Fight							Road
15	YAMAN		1,498	1,395											
		Yamanda	831 667		Kompiam HC Kompiam HC										Road Road
16	LINGEN	Lyuwas NAS	637	1,292	Kompiam no	NOT DOILE D	de lo Tribai	rigiit							Roau
	LIITOLI	Lenginas	509	663	Maramb HC	Not Done D	ue to Tribal	Fight							30 Min Trek
		Marambe	128	217	Maramb HC	Not Done D	ue to Tribal	Fight							30 Min Trek
		Lyandmale		241	Maramb HC										Trek
		Elyaipus		171	Maramb HC	Not Done D	ue to Tribal	Fight							Trek
17	RUM	1	963	907	M	Not Dame D	to Talk of	Et alan							OO Min Tools
_		Rum Yalemanda	318 645	237 670	Maramb HC Maramb HC										30 Min Trek 30 Min Trek
18	PAIP	Talemanua	793	834	IVIAI AITID T IC	1,020	239	496		3	0	0	150		30 Will Hek
- 10	1 7 (11	Biakamanda	364		Kompiam HC	422	99	203	12.05.17	1	0	0	50	NBC	Road/2 Hr Trek
		Paip	251	199	Kompiam HC	415	100	202	12.05.17	1	0	0	98	NBC	Road/2 Hr Trek
		Ambokali	177	263	Kompiam HC	183	40	91	12.05.17	1	0	0	2	NBC	Road/2 Hr Trek
19	PAKAL		992	929		776	175	388		4	0	0	3		
		Pakaliam	124		Kompiam HC	188	50	102	09.05.17	1	0	0	0	NBC	Road/3 Hr Trek
-		Kanomanda Tupip	336 252		Kompiam HC Kompiam HC	264 148	50 25	131 70	09.05.17 09.05.17	1	0	0	3	NBC NBC	Road/3 Hr Trek Road/3 Hr Trek
		Walim	252		Kompiam HC	176	50	85	09.05.17	1	0	0	0	NBC	Road/3 Hr Trek
20	APERA		898	771		915	189	420	55.55.17	2	0	0	45	.100	
		Aperas	520	492	Kompiam HC	653	139	295	09.05.17	1	0	0	25	NBC	Road
		Pakaliluam	378		Kompiam HC	262	50	125	09.05.17	1	0	0	20	NBC	Road
21	KIOKAI		445	224		588	128	298		2	0	0	28		<u></u>
		Kiokai	227		Kompiam HC	357	78	180	09.05.17	1	0	0	11	NBC	/Road3 Hr Trek
22	LIAD	Kalokamanda	218	128 597	Kompiam HC	231 537	50 124	118 261	09.05.17	1 2	0 0	0	17 0	NBC	/Road3 Hr Trek
	LIAP	Liap	820 396		Kompiam HC	320	79	155	11.05.17	1	0	0	0	NBC	Road/4 Hr Trek
		Lyokolam	424		Kompiam HC	217	45	106	11.05.17	1	0	0	0	NBC	Road/4 Hr Trek
23	IPAMAU		1,090	1,049		1,147	214	487		3	0	0	213	1120	
		Ipamauanda	413	482	Lapalama HC	293	41	123	02.06.17	1	0	0	40	SAU FM	2 hrs Trek from HC
		Pyarulam	439		Lapalama HC	594	123	257	04.06.17	1	0	0	123	SAU FM	10 hrs 15 mins Trek from HC
		Warelam	237		Lapalama HC	260	50	107	02.06.17	1	0	0	50	SAU FM	4 hrs Trek from HC
24	LAPALA		505	521	l IIO	550	110	240	04.05.47	3	0	0	92	0411.514	0. 5 min a trada france 110
_		Lapalama Kamalam	67 239		Lapalama HC Lapalama HC	263 142	50 30	112 65	31.05.17 31.05.17	1	0	0	32 30	SAU FM SAU FM	0 - 5 mins trek from HC 30 mins - 1 hr trek from HC
-		Tapaikinis	199		Lapalama HC	145	30	63	31.05.17	1	0	0	30	SAU FM	4 hrs Trek from HC
25	LYAIMA		603	607	Lupuidina 110	680	95	298	01.00.11	2	0	0	87	0/10 / 111	11110 110111110
		Lyaimanda	352		Lapalama HC	280	50	132	01.06.17	1	0	0	42	SAU FM	3 hrs Trek from HC
		Kopalapus	251	383	Lapalama HC	400	45	166	31.05.17	1	0	0	45	SAU FM	30 mins Trek from HC
26	RUDISA		887	396		589	101	277		4	0	0	101		
		Rudisau	542		Lapalama HC	285	45	129	04.06.17	1	0	0	45	SAU FM	9 hrs Trek from HC
		Isokoe	132		Lapalama HC Lapalama HC	153 44	28 8	72 25	04.06.17 04.06.17	1	0	0	28 8	SAU FM SAU FM	9 hrs Trek from HC 9 hrs Trek from HC
		Irasimanda Ende	100 113		Lapalama HC	107	20	51	04.06.17	1	0	0	20	SAU FM	7 hrs Trek from HC
27	LAILAN		592	1,654	Lupuluma 110	1,521	241	702	04.00.17	3	0	0	69	C/ (C T W	7 1110 11011 110111110
		Lailam	287	619	Yampu HC2	471	71	218	12.05.17	1	0	0	21	NBC	Road/4Hr Trek
		Matalam	306	623	Yampu HC2	590	89	268	12.05.17	1	0	0	19	NBC	Road/4Hr Trek
		Kepakanda		412	Yampu HC2	460	81	216	12.05.17	1	0	0	29	NBC	Road/4Hr Trek
28	KEMAN		656	412		437	66	203		1	0	0	10		
		Keman	656	412	Yampu HC2	437	66	203	12.05.17	1	0	0	10	NBC	Road/4Hr Trek
29	KAIMAI		583	350	Va 1125	509	79	239	40.05 :-	1	0	0	9	NE C	Donald D. T. :
20	PULIPA	Kaimanda	583 484	350 687	Yampu HC2	509 500	79 100	239 269	12.05.17	1 1	0 0	0 0	9	NBC	Road/1 Day Trek
30	, JLIFF	Pulipais	484		Kompiam HC	500	100	269	12.05.17	1	0	0	0	NBC	Road/1 Day Trek
31	ALAKU	'	981	1,254		2,191	300	1,041		1	0	0	0		
		Alakula	504	642	Kompiam HC	1,162	150	533	12.05.17	`1	0	0	0	NBC	Road/1 Day Trek
		Sangures	478		Kompiam HC	1,029	150	508	12.05.17	1	0	0	0	NBC	Road/1 Day Trek
32	KAIMAS		828	1,165	Vama::-: 110	1,874	300	876	40.05 :=	2	0	0	0	NDC	Deed/ODT
-		Kaimas Umokea	375 453		Kompiam HC Kompiam HC	1,021 853	150	456 420	12.05.17	1	0	0	0	NBC	Road/2 Day Trek Road/2 Day Trek
33	YUAMA		453 712	773	Rompiaili HC	1,310	150 250	420 674	12.05.17	3	0	0	0	NBC	Noau/2 Day Hek
- 55	TOAWA	Yaumanda	381		Kompiam HC	556	100	268	11.05.17	1	0	0	0	NBC	Road
		Nelemanda	332		Kompiam HC	472	100	263	11.05.17	1	0	0	0	NBC	Road/3 hrs Trek
		Maiperi		NEW	Kompiam HC	282	50	143	11.05.17	1	0	0	0	NBC	Road/4 hrs Trek
34	SAMAR	REMANDA	629	733		894	200	466		3	0	0	107		
<u> </u>		Samaremanda	169		Kompiam HC	432	100	237	09.05.17	1	0	0	75	NBC	Road
<u> </u>		Wali Anditale	261 199		Kompiam HC Kompiam HC	230 232	50 50	116 113	09.05.17	1	0	0	0	NBC	Road Road
35		IMANDA	199 570	409	716	232	50	113	09.05.17		U	U	32	NBC	Noau
- 33		Yawalimanda	570		Kompiam HC	Not Done D	ue to Tribal	Fight							Road/4 Hr Trek
36	AIPANE		678	0											
		Aipanda	592		Kompiam HC										Road/Trek
		Yawalimanda	86		Kompiam HC	Not Done D	ue to Tribal	Fight							Road/Trek
37	AMAIM.		247	307	M 1	No.		Et. 1							- .
20		Amaimale	247	307	Maramb HC	Not Done D	ue to Tribal	right							Trek
38	MAKAL	E	469	0											

			Estimated	Estimated											
LLG	WARD	VILLAGE	2017 Population Based On Census	2017 Population Based On 2014 Census	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Makale	231	0	Maramb HC	Not Done D	ue to Tribal	Fight							Trek
		Parakalam	239	0	Maramb HC	Not Done D	ue to Tribal	Fight							Trek
				0											
WAP	YENGIS	S RURAL	8,882	6,405		7,161	1,586	3,501		15	0	0	0	24	
1	YENGIS	S	325	258		544	98	224		2	0	0	0		
		Yengis Stn	165	131	Yengis HC	267	49	120	02.06.17	1	0	0	0	NBC	Airstrip Here
		Kuimas	160	127	Yengis HC	277	49	104	02.06.17	1	0	0	0	NBC	Trek
2	SAINA		329	399		427	97	199		2	0	0	0		
		Saina (Yengis)	157	136	Yengis HC	219	49	103	02.06.17	1	0	0	0	NBC	Trek
		Newtown	172	263	Yengis HC	208	48	96	02.06.17	1	0	0	0	NBC	Trek
3	KENAIL	AMA	669	729	-	784	197	366		1	0	0	0		
		Kenailama	669	729	Yengis HC	784	197	366	02.06.17	1	0	0	0	NBC	3 Hr Trek
4	MULAL	E	910	743	·	822	198	405		1	0	0	0		
		Mulale	910	743	Yengis HC	822	198	405	04.06.17	1	0	0	0	NBC	3 Hr Trek
5	WARAE	BUL	811	500		396	81	184		2	0	0	0		
		Warabul	396	500	Yengis HC	177	31	81	02.06.17	1	0	0	0	NBC	4 Hr Trek
		Paikao	415	0	Yengis HC	219	50	103	03.06.17	1	0	0	0	NBC	To be covered by HC staff
6	PULUK		581	238		142	27	64		1	0	0	0		
		Pulukulama	581	238	Yengis HC	142	27	64	03.06.17	1	0	0	0	NBC	1 Day Trek
7	PUMEA	AN .	576	557		659	148	300		1	0	0	0		
	_	Pumean	576	557	Yengis HC	659	148	300	03.06.17	1	0	0	0	NBC	1 Day Trek
8	KAPUM		1,067	488		397	100	201		1	0	0	0		,
		Kapumanda	1,067	488	Yengis HC	397	100	201	01.06.17	1	0	0	0	NBC	1 Day Trek
9	MENGA		680	329	<u> </u>	364	88	176		1	0	0	0		,
		Mengao	680	329	Yengis HC	364	88	176	01.06.17	1	0	0	0	NBC	2 Day Trek
10	MOSOF		559	510	<u> </u>	622	147	282		3	0	0	0		,
		Mosop	158	19	Yengis HC	213	50	100	02.06.17	1	0	0	0	NBC	1 Day Trek
		Engapalu	124	267	Yengis HC	212	48	83	02.06.17	1	0	0	0	NBC	1 Day Trek
		Kombaulam	277	224	Yengis HC	197	49	99	04.06.17	1	0	0	0	NBC	1 Day Trek
11	YAMBA		581	465	. origio i io	505	126	315	01.00.11	0	0	0	0		. Day non
- ''	17 ((1))	Yambaitok	431	385	Yambaitok AF	385	97	248	03.06.17	yes	0	0	0		Trek
		Penale	150		Yambaitok AF	120	29	67	03.06.17	yes	0	0	0		Trek
12	KOPAIF		542	139	Tamballok 7 ti	188	35	100	03.00.17	0	0	0	0		TIOK
12	_	Kopaipalu	542	139	Iripino AP	188	35	100	02.06.17	0	0	0	0	FM 100	Trek
13	OLIMOI	• •	1,030	368	пршоти	519	100	268	02.00.17	0	0	0	0	1 W 100	TTOK
13	_	Olimoli	615	168	Iripino AP	269	50	135	03.06.7	0	0	0	0	FM 100	Trek
		Wakim	415	48	Iripino AP	33	8	19	03.06.7	0	0	0	0	FM 100	Trek
-		Kurump (ESP)	415	80	Iripino AP Ex	117	25	64	01.06.17	0	0	0	0	FM 100	Trek
		Kainam (ESP)		72	Iripino AP Ex	100	17	50	03.06.17	0	0	0	0	FM 100	Trek
14	ELEM	Namaili (LOF)	222	229	IIIPIIIO AF EX	261	39	131	03.00.17	0	0	0	0	1 W 100	1107
14		Elem	222	157	Iripino AP	153	22	77	03.06.17	0	0	0	0	FM 100	Trek
		Kurump (ESP)	222	72	Iripino AP	108	17	54	03.06.17	0	0	0	0	FM 100	Trek
15	IRIPINO			454	прино АР	531	105	286	03.00.17	0	0	0	0	1-1VI 100	1101
15	ILILING	Iripino (ESP)		303	Iripino AP Ex	413	81	227	31.05.17	0	0	0	0	FM 100	Trek
		Welmo		151	Iripino AP Ex	118	24	59	02.06.17	0	0	0	0	FM 100	Trek
		Mellin		151	III PIII O AF EX	110	24	28	02.00.17	U	U	U	U	I-IVI TUU	IIGN

ENGA PROVINCE LAGAIP DISTRICT POPULATION 2017 LLIN DISTRIBUTION SUMMARY SHEET

		VILLAGE	Based On 2000 Census	Estimated 2017 Population Based On 2014 Census	Health Centre	Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Ĭ	Bmobile		Houses With Radios	Radio Networks	Comment
		RGERA	128,057			70,163	10,917	32,088		73	41	0	425	49	
	AIP RUF KINAP		57,969 770		0	0 High Altitud	e - Not Don	0		0	0	0	0	0	
	KIINAF	Kinapulam	398		Kepalem HC	Tilgit Altitud	le - Not Don	-							Road
		Lyainilam	371		Kepalem HC										Road
2	YOKO		916			High Altitud	le - Not Don	е							
		Yokonda	519		Kepalem HC										Road
		Mulisos	397		Kepalem HC										Road
3	TUPAN		1,417			High Altitud	le - Not Don	е							
		Tupangus	739 339		Kepalem HC										Road Road
		Pumas Aipi	339		Kepalem HC Kepalem HC										Road
4	PORG		2,232		rtopaioiiirio	High Altitud	le - Not Don	е							
		Porgeras	1,365		Kepalem HC										Road
		Kaindan	464		Kepalem HC										Road
		Ais	402		Kepalem HC										Road
5	YENGI	- Vongil	1,230 474	1	Kepalem HC	High Altitud	le - Not Don	e							Road
		Yengil Wagam	374	+	Kepalem HC										Road
		Yakapele	381		Kepalem HC										Road
6	KAILAI		699			High Altitud	le - Not Don	е							
		Kailam	332		Kepalem HC										Road
_	1 45:55	Pyauti	367		Kepalem HC	Llinda Atti	le - Not Don								Road
	LANDE	LAM Landelam	270 270		Kepalem HC	High Aititud	ie - Not Don	е							Road
8	PYAKA		1,281		RepaleIIITIC	High Altitud	le - Not Don	e							Noad
		Pyakain	311		Kepalem HC	3									Road
		Pangu	464		Kepalem HC										Road
		Yokopiniam	265		Kepalem HC										Road
		Kendelam	241		Kepalem HC	LIC L AICC									Road
9	TUMBI	OP Tumbiop	1,205 573		Kepalem HC	High Altitud	le - Not Don	e							Road
		Kapililam	604		Kepalem HC										Road
		Tumbiop C/sch, Mission & A/Po	28		Kepalem HC										Road
10	KANAN		632			High Altitud	le - Not Don	е							
	KEPEL	Kanamanda	632		Kepalem HC	I II alla Allaida di	le - Not Don								Road
11	KEPEL	Kepelam	1,417 690		Kepalem HC	righ Ailitud	ie - Not Don	е							Road
		Lindita	591		Kepalem HC										Road
		Kepelam Community School	39		Kepalem HC										Road
		Kepelam H/C& Mission	97		Kepalem HC										Road
12	MAPOI	MANDA	605		14 1 110	High Altitud	le - Not Don	е							Dood
		Mapomanda Ladapus	155 433		Kepalem HC Kepalem HC										Road Road
		Mapomanda Community School	17		Kepalem HC										Road
13	PAPAY		1,821			High Altitud	le - Not Don	е							
		Papyuku	708		iagam Dist. Ho										Road
		Kembol	371		iagam Dist. Ho										Road
		Yakyak Yalumandaka	153 504	1	iagam Dist. Ho iagam Dist. Ho										Road Road
		Papyuku Community School & N	84		iagam Dist. Ho										Road
14	KIPOS	, , , , , , , , , , , , , , , , , , , ,	850	1			le - Not Don	е							
		Kipos	585		iagam Dist. Ho										Road
	DI	Yakopiamanda	265	1	iagam Dist. Ho		la Net D								Road
15	PULUK	US Tambus	1,027 581	+	iagam Dist. Ho	High Altitud	ie - Not Don	е							Road
		Kondal	446		iagam Dist. Ho										Road
16	KANAK		2,788	1			le - Not Don	е							
		Kanak	841	1	iagam Dist. Ho										Road
		Niugu	760		iagam Dist. Ho										Road
		Wanepop	1,140	1	iagam Dist. Ho										Road
17	YANGO	Kanak A/post, E/School & Mission	46 1,126		iagam Dist. Ho		le - Not Don	e							Road
		Yango	455		Yango SHC	gar autud	.10. 0011								Road
		Pais	284		Yango SHC										Road
		Sakanimanda	387		Yango SHC										Road
18	TENDE		1,068	+	V 5:15	High Altitud	le - Not Don	е							Dand
		Tendep Takip	547 521		Yango SHC Yango SHC										Road Road
19	MAMAI		1,311		rango onto	High Altitud	le - Not Don	е							Noud
		Takip	1,311		iagam Dist. Ho										Road
00	KEMBO)S	1,873			High Altitud	le - Not Don	е							

E CONTRESSE DE LA CONTRESSE DE	VILLAGE	Based On 2000 Census	2017 Population Based On 2014 Census	nealth Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
Color Colo	Kembos	767		aiagam Dist. Hos										Road
21 KOMIAP 22 WANAP 23 TAKULP 24 KASAP 25 YENGIY 26 KINDAR 27 YAKEND 28 KERAIP 29 AIYAK 29 AIYAK 30 IPAI 31 LYONGE 32 PIAP 33 LIOP 34 YAKEND 35 MAMITE 36 NAGUTE 37 KAIPARE 38 POREA 39 TUKUSE 39 TUKUSE 39 TUKUSE 40 NAGULA NAGULA NAGULA 41 YOMONI 42 KUSI 44 LYAMAL 45 KULITA 46 WATAL 47 YAKAL 47 YAKAL 48 KUIMAS 49 LAIAGA 49 LAIAGA 40 PA 44 LYAMAL 47 YAKAL 48 KUIMAS 49 LAIAGA 49 LAIAGA 40 PA 41 YAKAL 41 YAKAL 42 PA 44 LYAMAL 45 PAINDA 46 WATAL 47 YAKAL 48 KUIMAS 49 LAIAGA 49 LAIAGA 49 LAIAGA 49 LAIAGA 49 LAIAGA 49 LAIAGA 40 PA 41 YAKAL 42 PA 44 LYAMAL 45 PAINDA 46 WATAL 47 YAKAL 48 KUIMAS 49 LAIAGA 49 LAIAGA 49 LAIAGA 40 PA 41 YAKAL 41 YAKAL 42 PA 43 PAINDA 44 LYAMAL 46 WATAL 47 YAKAL 48 KUIMAS 49 LAIAGA 49 LAIAGA 49 LAIAGA 40 PA 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 KUIMAS 49 LAIAGA 49 LAIAGA 49 LAIAGA 40 PA 41 YAKAL 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 KUIMAS 49 LAIAGA 49 LAIAGA 40 PA 41 YAKAL 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 PA 49 LAIAGA 40 PA 40 PA 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 PA 49 LAIAGA 40 PA 40 PA 41 YAKAL 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 PA 49 LAIAGA 49 PA 40 PA 40 PA 41 YAKAL 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 PA 49 LAIAGA 40 PA 40 PA 41 YAKAL 41 YAKAL 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 PA 49 LAIAGA 40 PA 40 PA 41 YAKAL 41 YAKAL 42 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 PA 48 PA 49 LAIAGA 40 PA 40 PA 40 PA 41 YAKAL 41 YAKAL 42 PA 43 PA 44 LAIAGA 45 PA 46 PA 47 YAKAL 48 PA 48 PA 49 LAIAGA 40 PA 40 PA 40 PA 41 YAKAL 42 PA 43 PA 44 PA 45 PA 46 PA 47 YAKAL 47 YAKAL 48 PA 48 PA 49 PA 40	Kaipores Kuplam	563 543		iagam Dist. Hos iagam Dist. Hos										Road Road
22 WANA 26 WANA 27 WANA 28 WANA 27 WANA 26 WANA 27 WANA 28 WANA 29 WANA 29 WANA 29 WANA 29 WANA 20		722	Lo			le - Not Don	e							rtoud
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40 NAGULA N 41 YOMON 42 KUSI K 43 PAINDA P 44 LYAMA LYAMA W 45 KULITA K 46 WATAL Y 47 YAKAL Y 48 KUIMAS K 49 LAIAGA H D D	ENDA Tukusenda	744 744		aiagam Dist. Hos		le - Not Don	е							Road
41 YOMONI 42 KUSI 43 PAINDAI 44 LYAMAL 45 KULITA 46 WATALI 47 YAKALY 48 KUIMAS 49 LAIAGAI 6 C		542	Lo			le - Not Don	e							Noau
42 KUSI K 43 PAINDA 44 LYAMAL 45 KULITA 46 WATAL 47 YAKAL 48 KUIMAS 49 LAIAGA H D D	Nagulam	542	La	iagam Dist. Hos										Road
42 KUSI K 43 PAINDA P 44 LYAMAL 45 KULITA 46 WATALI 47 YAKALY P 48 KUIMAS K 49 LAIAGAM	NDI	989				le - Not Don	е							
44 LYAMAL 45 KULITA 46 WATAL 47 YAKALY 48 KUIMAS 49 LAIAGAA	Yomondi	989		iagam Dist. Hos										Road
43 PAINDAF 44 LYAMAL 45 KULITA 46 WATAL 47 YAKALY 48 KUIMAS 49 LAIAGAM 49 LAIAGAM H	Kusi	256 256		aiagam Dist. Hos		le - Not Don	e							Road
44 LYAMAL 45 KULITA 46 WATAL 47 YAKALY 48 KUIMAS 49 LAIAGAM G		1,295	Lo			le - Not Don	e							rtoud
45 KULITA 46 WATALI 47 YAKALY 48 KUIMAS 49 LAIAGAM C D	Paindako	1,295	La	iagam Dist. Hos	sp.									Road
45 KULITA K 46 WATALI 47 YAKALY P 48 KUIMAS K 49 LAIAGAM G G G		1,613				le - Not Don	е							
46 WATALI 47 YAKALY 48 KUIMAS 49 LAIAGAI COLUMN	Paindako	1,613	La	aiagam Dist. Hos		le - Not Don								Road
46 WATALI M 47 YAKALY Y 48 KUIMAS K 49 LAIAGAI	A Kulita	124 124	Į s	aiagam Dist. Hos		e - Not Don	6							Road
47 YAKALYYAKALYYYAKALYYYAKALYYAKALYYAKALYYAKALYYAKALYYAKALYYAKALYYAKALYYAKALYYAKALYYAKALYYYAKALYYYAKALYYYAKALYYYAKALYYYAKALYYYAKALYYYAKALYYYYAKALYYYYAKALYYYYYAKALYYYYYYYY		910	L			le - Not Don	е							11000
48 KUIMAS K 49 LAIAGA H	Watali	910	La	aiagam Dist. Hos	sp.									Road
48 KUIMAS K 49 LAIAGAA C C C C		902				le - Not Don	е							
48 KUIMAS K 49 LAIAGAM C C C D	Yakalyele Piningus	554 348		aiagam Dist. Hos aiagam Dist. Hos										Road Road
49 LAIAGAN C C C	Pipingus AS	940				le - Not Don	e							Rodu
49 LAIAGAN	Kuimas	940		iagam Dist. Hos	sp.									Road
C H	AM URBAN	916			High Altitud	le - Not Don	е							
Н D	Council Chamber	350		aiagam Dist. Hos										Road
D	Commercial - Airstrip Hospital	138 194		aiagam Dist. Hos aiagam Dist. Hos										Road Road
D	Dpi - Laiagam	189		aiagam Dist. Hos										Road
****new	Dpi - Sda Mission	45		aiagam Dist. Hos										Road
	N				High Altitud	le - Not Don	е							
				iagam Dist. Hos										
 		0		iagam Dist. Hos	sp.									
MAIP MURITA		22,394			25,986	4,505	12,341		32	0	0	0	8	
1 TUMUDA	TAKA RURAL			23076.76504	3,922	738	1,899		6	0	0			
		3,473	3,413											
W P		3,473 737 728	869		923 431	150 100	427 207	11.05.17 11.05.17	1	0	0	0		Road Road

			Estimated 2014 Population Based On	Estimated 2017 Population Based On	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
LLG	WARD	VILLAGE	2000 Census	2014 Census			Í								
		Ipati	715	254	Muritaka HC	354	50	173	11.05.17	1	0	0	0		Road
		Maip	934	1,022	Muritaka HC	1,259	273	635	10.05.17	1	0	0	0		Road
		Tumudane Community School	177	370	Muritaka HC	479	72	210	11.05.17	1	0	0	0		Road
2	WALYA		1,196	1,474		1,342	250	603		1	0	0			
		Walya	1,196	1,474	Muritaka HC	1,342	250	603	10.05.17	1	0	0	0		1 Day Trek
3	YEIM	V-:	1,796	1,793	Marrie III	1,706	359	758	44.05.47	4	0	0	_		2 Day Trak
		Yeim	485 411	610 434	Muritaka HC Muritaka HC	544 460	100 100	261 205	14.05.17	1	0	0	0		2 Day Trek 2 Day Trek
		Tokom Winjaka	332	434	Muritaka HC	285	64	132	14.05.17 10.05.17	1	0	0	0		2 Day Trek
		Waili	567	306	Muritaka HC	417	95	160	10.05.17	1	0	0	0		2 Day Trek
4	YALUM		1,784	1,641	Wantaka 110	1,137	218	516	10.00.17	3	0	0			2 2 a) 110 k
		Yalum	957	865	Muritaka HC	639	166	298		1	0	0	0		Trek
		Tilli	201	345	Muritaka HC	179	36	83	10.05.17	1	0	0	0		Trek
		Poreaka	626	431	Muritaka HC	319	16	135	10.05.17	1	0	0	0		3 hours trek
5	TOMBA	NP.	1,404	1,227		819	145	404		2	0	0			
		Tombaip	594	539	Muritaka HC	748	131	354	14.05.17	1	0	0	0		Road and Trek
		Tokos	811	688	Muritaka HC	71	14	50	14.05.17	1	0	0	0		Road
6	RUMBA		2,306	2,952		3,155	560	1,569		3	0	0	_		
		Rumbapres	523	488	Muritaka HC	445	77	236	12.05.17	1	0	0	0		Road
-		Pokalip	1,482 301	1,866	Muritaka HC	1,920 790	350	944	13.05.17	1	0	0	0		Road Road/Trek
7	YAMBA	Pain	301 3,415	597 3,936	Muritaka HC	790 5,477	133 872	389 2,581	13.05.17	1 5	0	0	U		rtoau/TTeK
- 1		Yambali	3, 415 788	1,072	Muritaka HC	1,998	327	940	13.05.17	1	0	0	0		Road
\dashv		Yuyango	943	1,072	Muritaka HC	907	147	457	14.05.17	1	0	0	0		Road
\dashv		Ipalop	521	499	Muritaka HC	741	100	338	14.05.17	1	0	0	0		Road
\dashv		Kulipanda	533	665	Muritaka HC	952	150	395	14.05.17	1	0	0	0		Road
		Yambuli	630	483	Muritaka HC	879	148	451	13.05.17	1	0	0	0		Road
8	MURIT	AKA	3,873	3,840		5,831	848	2,786		4	0	0			
		Muritaka	1,576	1,425	Muritaka HC	1,892	272	906	13.05.17	1	0	0	0		Road
		Paitenges	1,065	869	Muritaka HC	1,363	199	645	13.05.17	1	0	0	0		Road
		Yakimaka	367	486	Muritaka HC	939	127	452	13.05.17	1	0	0	0		Road
		Koimale	864	1,060	Muritaka HC	1,637	250	783	13.05.17	1	0	0	0		Road
9	TOREN		2,479	2,257		1,875	399	924		4	0	0			DI
		Torenam	764 664	642 419	Muritaka HC Muritaka HC	533 424	100 100	262 206	11.05.17	1	0	0	0		Road Road
\dashv		Kopetes Lambusilama	1,051	620	Muritaka HC	672	149	335	11.05.17 11.05.17	1	0	0	0		I day Trek from Torenam
-		Yengintapus	1,051	576	Muritaka HC	246	50	121	11.05.17	1	0	0	0		I day Trek from Torenam
10	MALAU	IMANDA	667	544	Wantaka 110	722	116	301	11.00.17	0	0	0	-		,
		Malaumanda	100	149	Malumanda AP	139	20	56	28.05.17	0	0	0	0	NBC Enga	15 min trek
		Kasakali	210	162	Malumanda AP	68	10	31	27.05.17	0	0	0	0	NBC Enga	2 days trek
		Malaumanda A/strip, A/P.	357	233	Malumanda AP	211	31	87	28.05.17	0	0	0	0	NBC Enga	10 mins trek
		Ulipa			Malumanda AP	67	14	26	30.05.17	0	0	0	0	NBC Enga	4 days trek
		Anamanda			Malumanda AP		11	22	30.05.17	0	0	0	0	NBC Enga	2 days trek
		Poke			Malumanda AP		6	13	30.05.17	0	0	0	0	NBC Enga	3 hrs trek
		Takop			Malumanda AP		15	43	27.05.17	0	0	0	0	NBC Enga	2 days trek
		London	45.505	44.404	Malumanda AP		9	23	27.05.17	0	0	0	0	NBC Enga	4 hrs trek
	ASPIRI	WA RURAL	15,597 507	11,164	6,388	753	110 Oue to Tribal	370		0	0	0	0	0	
		Aspiringa	507	170 170	Paiela	Not Done L	de lo Tribai	Fignt							Trek
2	BEALO		1,237	43	Paleia	Not Done D	ue to Tribal	Fight							TICK
		Bealo	459	43	Paiela	1101 2 0110 2	ao to mbai	- igiii							Trek
		Piawe	778	0	Paiela										Trek
3	INGILE		1,200	446		Not Done D	ue to Tribal	Fight							
		Ingilep	1,200	446	Paiela										Trek
4	KOLON		1,212	413		Not Done D	ue to Tribal	Fight							
		Kolombi	1,212	413	Paiela										Trek
5	WAIMA		915	2,535		Not Done D	ue to Tribal	Fight							
		Waimalama	408	2,145	Paiela										Trek
		Wangialo	507	390	Paiela	No.		Fi L							Trek
6	KOMAN		981	594	Daial-	Not Done D	oue to Tribal	right							Trok
-	TAGOE	Komanga	981	594 268	Paiela	Not Dono D	ue to Tribal	Fight							Trek
		Tagoba	653 653	268 268	Paiela	NOT DONE L	AC TO TIDAL	rignt							Trek
8	TARON		260	319	ı alcıd	Not Done Γ	ue to Tribal	Fight							TION
Ť		Taronga	260	319	Paiela			9							Trek
9	ANDITA		581	835		Not Done D	ue to Tribal	Fight							
		Andita	440	572	Paiela										Road
		Yawaia	141	263	Paiela										Road
10	KANJIV		753	57		Not Done D	ue to Tribal	Fight							
		Kanjiwi	753	57	Paiela										Trek
11	MANDU		618	467		Not Done D	ue to Tribal	Fight							
		Mandukale	618	467	Paiela	N. A.D.		Fi L							Trek
	レハレハレ	E	784	241	Hanne	Not Done D	oue to Tribal	right							Not done due to tribal fight
12		Danaka	005						•						HOLDONE QUE LO LIDRI IIGNI
12		Papake Semeti	335 128	81 34	Hewa Hewa										Not done due to tribal fight
12		Semeti	128	34	Hewa										Not done due to tribal fight
12															Not done due to tribal fight Not done due to tribal fight Not done due to tribal fight

		1			Ī				•						1
			Estimated	Estimated											
			2014 Population	2017 Population		Population	House	Nets	Date Of				Houses	Radio	
			Based On	Based On	Health Centre	Surveyed	Holds	Issued	Date Of Distribution	Digicel	Bmobile	Citifon	With	Networks	Comment
			2000	2014		Ourveyeu	Surveyed	133404	Distribution				Radios	NCLWOIKS	
LLG	WARD	VILLAGE	Census	Census											
	MT KA		2,575	3,345		Not Done D	ue to Tribal	Fight							
		Mt Kare	1,031	2,092	Paiela			J							Trek
		Kare Puga	1,544	1,253	Paiela										Trek
14	WAIYO	•	639	119	, aloia	Not Done D	ue to Tribal	Fight							
		Waiyonga	639	119	Paiela			g							Trek
15	PAIFL	A STATION	1,576	339	i dicid	Not Done F	ue to Tribal	Fight							
10	I AILL	Tombena	1,576	339	Paiela	140t Bollo E	de le Tribui	rigin							Trek
16	WAYA		1,107	973	i aicia	753	110	370		0	0	0	0		TION
10	WAIA	Wayalima	338	80	Hewa	269	39	132	29.05.17	0	0	0	0		Trek
		Eyaka	400	648	Hewa	203	34	101		0	0	0	0		Air strip here
		•						_	28.05.17						Trek
		Wundu	180	165	Hewa	74	6	36	30.05.17	0	0	0	0		
		Kulupu	190	80	Hewa	207	31	101	29.05.17	0	0	0	0		Trek
			0	0											
		RURAL	32,096	32,807		43,424	6,302	19,377		41	41	0	425	41	
1	ANAW		4,223	6,409		10,826	1,303	4,842		6	6	0	285		
		Anawe	723	992	Pogera	1,341	187	616	12.05.17	1	1	0	18	93.5 FM	Road
		Lukulame	1,624	2,341	Pogera	4,487	413	1,964	12.05.17	1	1	0	66	93.5 FM	Road
		Kulapi	877	1,492	Pogera	1,827	282	839	10.05.17	1	1	0	132	93.5 FM	Road
		Pandadaka	826	1,210	Pogera	1,643	221	738	09.05.17	1	1	0	42	93.5 FM	Road
		Awumbi	173	373	Pogera	630	100	286	10.05.17	1	1	0	26	93.5 FM	Road
		Kumbi		NEW	Pogera	898	100	399	10.05.17	1	1	0	1	93.5 FM	Road
2	MUNG	GULEP	1,501	1,638		2,428	341	1,085		2	2	0	5		
		Mungulep	1,252	859	Pogera	1,692	211	742	09.05.17	1	1	0	0	93.5 FM	Road
		Kakadaka	249	779	Pogera	736	130	343	09.05.17	1	1	0	5	93.5 FM	Road
3	APALA		1,516	1,836	,	2,785	484	1,304		2	2	0	15		
		Apalaka	920	1,836	Pogera	2,276	385	1,067	11.05.17	1	1	0			Road
		Lepelama	595	0	Pogera	509	99	237	11.05.17	1	1	0	15	93.5 FM	Road
4	YUYAN		595	649	9	582	77	267		1	1	0	29		
	10174	Yuyane	595	649	Pogera	582	77	267	09.05.17	1	1	0	29	93.5 FM	Road / Trek
5	POLIT		1,738	551	rogera	407	84	215	00.00.17	2	2	0	0	00.01141	110007 11011
	I OLIII	Politika	934	448	Pogera	244	61	139	10.05.17	1	1	0	0	93.5FM	Road
		Pirika	804	104	•	163	23	76	09.05.17	1	1	0	0	93.5FM	Road
-	DAIMA				Pogera	5,375	871	2,345	09.03.17	3	3	0	0	93.35101	Noau
0	PAIYA		2,807	5,119		1,398			11.05.17					00.5514	Road
		Pimaka	998	810	Pogera		200	607	11.05.17	1	1	0	0	93.5FM	Road
		Lukale	913	1,265	Pogera	1,843	278	794	11.05.17	1	1	0	0	93.5FM	
		Suyan	896	1,747	Pogera	2,134	393	944	11.05.17	1	1	0	0	93.5FM	Road
		Paiam Town		834	Pogera										Covered in ward#18
		Haus Sik		461	Pogera										Covered in ward#18
7	PALAII		2,482	2,624		4,395	622	2,060		2	2	0	0		
		Palaipaka	825	1,239	Pogera	1,312	227	749	11.05.17	1	1	0	0	93.5FM	Road
		0	4.050	4.005	D	2.002	205	4 044	44.05.47				_	00.5514	Road people move in from
	KAIRIK	Aritene	1,658	1,385	Pogera	3,083	395	1,311 391	11.05.17	1	1	0 0	0 0	93.5FM	Kairik
8	KAIRIK		1,259	1,609	D	891	134		40.05.47		1			00.5514	Decade merited to evitere
		Pandami	1,259	1,609	Pogera	891	134	391	10.05.17	1	1	0	0	93.5FM	People moved to aritene
9	TIPINII		1,759	1,174	_	1,316	318	601		3	3	0	0		D
		Tipinini (Korarik)	816	535	Pogera	430	99	195	10.05.17	1	1	0	0	93.5FM	Road
		Kiya	554	459	Pogera	809	198	368	10.05.17	1	1	0	0	93.5FM	Road
		Lesai	388	180	Pogera	77	21	38	10.05.17	1	1	0	0	93.5FM	Road
10	YOMO		1,331	1,125		1,122	211	497		3	3	0	0		
		Yomodaka	303	292	Pogera	356	63	155	10.05.17	1	1	0	0	93.5FM	Road
		Lapakepo	359	221	Pogera	234	50	99	10.05.17	1	1	0	0	93.5FM	Road
		Kukulama	670	612	Pogera	532	98	243	10.05.17	1	1	0	0	93.5FM	Road
11	YANJII		3,714	3,288		3,816	559	1,572		2	2	0	0		
		Upper Mapingi	2,202	1,273	Pogera	1,365	208	573	12.05.17	1	1	0	0	93.5FM	Road
		Lower Mapingi	1,511	2,015	Pogera	2,451	351	999	12.05.17	1	1	0	0	93.5FM	Road
12	NEKE	YANDA	83	710		661	77	286		1	1	0	24		
		Nekeyanga	83	710	Pogera	661	77	286	09.05.17	1	1	0	24	93.5FM	Road
13	YAPAF	REP	1,120	445		160	18	72		1	1	0	0		
		Yaparep	640	445	Pogera	160	18	72	09.05.17	1	1	0	0	93.5FM	Road
		Yoporai	480	0	Pogera	0	0							93.5FM	Most moved into town
14	YARIK		3,287	3,397		3,911	545	1,779		2	2	0	40		
		Yarik	2,418	2,372	Pogera	2,970	359	1,314	11.05.17	1	1	0	29	93.5FM	Road
		Timorope	870	1,025	Pogera	941	186	465	11.05.17	1	1	0	11	93.5 FM	Road
15	PANDA	AMI (KAIRIK)	1,250	0		1,093	170	485		2	2	0	0		
		Pandami	1,029	0	Pogera	833	132	367	10.05.17	1	1	0	0	93.5 FM	Road
		i diiddiii		0	Pogera	260	38	118		1	1	0	0	93.5 FM	Road
		Ipandaka	221	0		200	53	167		2	2	0	0		
	TAIPO	Ipandaka	221 715	0		393				_			U		
	TAIPO	Ipandaka			Pogera	256	33	114		1	1	0	0	93.5 FM	Road/Tribal Fight in 2014
	TAIPO	Ipandaka KO	715	0	Pogera Pogera			114 53		1	1	0		93.5 FM 93.5 FM	Road/Tribal Fight in 2014 Road/Tribal Fight in 2015
16		Ipandaka KO Taipoko	715 621	0	·	256	33						0		_
16		Ipandaka KO Taipoko Tamakale	715 621 94	0 0 0	·	256 137	33 20	53	12.05.17	1	1	0	0		_
16		Ipandaka KO Taipoko Tamakale ERA URBAN	715 621 94 1,990	0 0 0 1,651	Pogera	256 137 2,293	33 20 285	53 984	12.05.17 12.05.17	1 4	1 4	0 0	0 0 27	93.5 FM	Road/Tribal Fight in 2015
16		Ipandaka KO Taipoko Tamakale ERA URBAN Mountain Lodge	715 621 94 1,990 477	0 0 0 1,651 426	Pogera Pogera Pogera	256 137 2,293 736	33 20 285 99	53 984 312		1 4 1	1 4 1	0 0 0	0 0 27 0	93.5 FM 93.5 FM	Road/Tribal Fight in 2015 Road
16		Ipandaka KO Taipoko Tamakale ERA URBAN Mountain Lodge District Office - Town	715 621 94 1,990 477 373	0 0 0 1,651 426 472	Pogera Pogera	256 137 2,293 736 924	33 20 285 99 100	53 984 312 396	12.05.17	1 4 1	1 4 1	0 0 0	0 0 27 0 0	93.5 FM 93.5 FM 93.5 FM	Road/Tribal Fight in 2015 Road Road
16		Ipandaka KO Taipoko Tamakale ERA URBAN Mountain Lodge District Office - Town Comm/Vocational School	715 621 94 1,990 477 373 411	0 0 1,651 426 472 294	Pogera Pogera Pogera Pogera	256 137 2,293 736 924 148	33 20 285 99 100 36	53 984 312 396 61	12.05.17 12.05.17	1 4 1 1	1 4 1 1	0 0 0 0	0 0 27 0 0	93.5 FM 93.5 FM 93.5 FM 93.5 FM	Road/Tribal Fight in 2015 Road Road Road Road
16		Ipandaka KO Taipoko Tamakale ERA URBAN Mountain Lodge District Office - Town Comm/Vocational School	715 621 94 1,990 477 373 411	0 0 1,651 426 472 294	Pogera Pogera Pogera Pogera	256 137 2,293 736 924 148	33 20 285 99 100 36	53 984 312 396 61	12.05.17 12.05.17	1 4 1 1	1 4 1 1	0 0 0 0	0 0 27 0 0	93.5 FM 93.5 FM 93.5 FM 93.5 FM	Road/Tribal Fight in 2015 Road Road Road Road Road Road
16	PORG	Ipandaka KO Taipoko Tamakale ERA URBAN Mountain Lodge District Office - Town Comm/Vocational School Pjv Minesite-Alipis	715 621 94 1,990 477 373 411 296	0 0 1,651 426 472 294 119	Pogera Pogera Pogera Pogera Pogera Pogera	256 137 2,293 736 924 148	33 20 285 99 100 36	53 984 312 396 61	12.05.17 12.05.17	1 4 1 1	1 4 1 1	0 0 0 0	0 0 27 0 0	93.5 FM 93.5 FM 93.5 FM 93.5 FM	Road/Tribal Fight in 2015 Road Road Road Road Road Road
16	PORG	Ipandaka KO Taipoko Tamakale ERA URBAN Mountain Lodge District Office - Town Comm/Vocational School Pjv Minesite-Alipis	715 621 94 1,990 477 373 411 296	0 0 1,651 426 472 294 119	Pogera Pogera Pogera Pogera Pogera Pogera	256 137 2,293 736 924 148 485	33 20 285 99 100 36 50	53 984 312 396 61 215	12.05.17 12.05.17	1 4 1 1 1	1 4 1 1 1	0 0 0 0 0	0 0 27 0 0 0 27	93.5 FM 93.5 FM 93.5 FM 93.5 FM	Road/Tribal Fight in 2015 Road Road Road Road

ANNEX FOUR

ENGA PROVINCE WABAG DISTRICT POPULATION 2017 LLIN DISTRIBUTION SUMMARY SHEET

		VILLAGE	Estimated 2014 Population Based On 2000 Census	Estimated 2017 Population Based On 2014 Census	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution		Bmobile		Houses With Radios	Radio Networks	Comment
WAB			67,086	67,086		76,963	13,872	36,034		129	19	0	5,459	120	
_	AG URB		4,805	-		8,278	1,242	3,634		16	10	0	631	16	
		URBAN NEW SYSTEM	4,805	7,490						_					
		CE BARRACKS	818	964		1,233	199	584		3	3	0	99		
		Police Barracks	309	354	Wabag Hosp.	557	84	258	22.05.17	1	1	0	50	FM Enga	Road
		D.P.I old Airstrip	508	95	Wabag Hosp.	102	15	47	22.05.17	1	1	0	15 34	FM Enga	Road
		Lanekep (Urban) DLD AIRSTRIPE	420	514 1,307	Wabag Hosp.	574 1,501	100 183	279 697	22.05.17	2	1 0	0	83	FM Enga	Road
			430	1, 30 7	Wahaa Haan	349	50	162	22.05.17	1	0	0	50	EM Engo	Road
		SDA Old Airstripe White Corner (Beast Street)	430	1,111	Wabag Hosp. Wabag Hosp.	1,152	133	535	22.05.17	1	0	0	33	FM Enga FM Enga	Road
		COMMERCIAL	1,366	1,181	wabag nosp.	2,412	359	910	22.00.17	4	3	0	191	1 W Linga	rtoau
		Wara Supply st. (Catholic Missi		210	Wabag Hosp.	323	50	152	22.05.17	1	1	0	34	FM Enga	Road
		Corrective Road (Langares)	312	498	Wabag Hosp.	843	107	179	22.05.17	1	1	0	0	FM Enga	Road
		Police Station	426		Wabag Hosp.	336	52	152	22.05.17	1	1	0	51	FM Enga	Road
		Dog Street	589	473	Wabag Hosp.	910	150	427	22.05.17	1	0	0	106	FM Enga	Road
	4 PRIMIE	ER HILL	787	1,279		1,110	199	518		2	0	0	145		
		NBC/ Comm/School	252	623	Wabag Hosp.	544	74	251	23.05.17	1	0	0	64	FM Enga	Road
		Dae Won Hotel Area	534	656	Wabag Hosp.	566	125	267	23.05.17	1	0	0	81	FM Enga	Road
	5 WABA	G HOSPITAL	572	1,364		1,622	239	739		3	3	0	100		
		Wabag Hospital	299	398	Wabag Hosp.	575	93	265	22.05.17	1	1	0	37	FM Enga	Road
		PTB Works (Newtown)	273	0	Wabag Hosp.	190	28	88	22.05.17	1	1	0	0	FM Enga	Road
		Hidden Valley		966	Wabag Hosp.	857	118	386	22.05.17	1	1	0	63	FM Enga	Road
	6 NEWT		533	1,228		92	13	41		1	1	0	13		
		Newtown	533	401	Wabag Hosp.										Included under ward 20 Aipus
		Aipus (Urban)		827	Wabag Hosp.	92	13	41	22.05.17	1	1		13	FM Enga	Road
		BAG SECONDARY SCH	299	167	M/-b	308	50	145	00.05.47	1	0	0	0	EM E	DI
		Wagbag secondary	299	167	Wabag Hosp.	308	50	145	22.05.17	1	0	0	0	FM Enga	Road
MA D	AC DUD	A1	F4 4F0	52.404		E0 400	40.050	27.046		02		•	2 505	0.4	
	AG RUR TUKUSA		54,459	52,104		59,460	10,850 e - Not Don	27,816		93	9	0	3,565	84	
1	TUKUSA		731 336		Tambitanis HC	nigh Aititud	e - Not Don	e							Road
		Tukusanda Lepatapus	395		Tambitanis HC										Road
2	AIPAND		1,044		Tambitanis 110	High Altitud	e - Not Don	P							rtoau
	All AND	Aipanda	804		Tambitanis HC	r iigir 7 tittaa	e Hot Bon								Road
		Tumbilam	240		Tambitanis HC										Road
3	TAMBITA		584			High Altitud	e - Not Don	e							
_		Tambitanis	328		Tambitanis HC	_ <u>_</u>									Road
		Kuleilam	256		Tambitanis HC										Road
4	LAKOLA	M	1,144			High Altitud	e - Not Don	е							
		Lakolam	402		Tambitanis HC										Road
		Aiekelam	691		Tambitanis HC										Road
		Lakolam 2	51		Tambitanis HC										Road
5	KUBALI	S	1,508			High Altitud	e - Not Don	е							
		Kubalis	323		Tambitanis HC										Road
		Yakananda	176		Tambitanis HC										Road
		Lakolam 2	192		Tambitanis HC										Road
		Punamalam	128		Tambitanis HC										Road
		Yagenda	222		Tambitanis HC										Road
<u> </u>	NIANE	Keasa	468	4.00-	Tambitanis HC	4.44	200	670		4	_	_	20		Road
6	NANDI	Nondi	1,244	1,603	Conce	1,414 379	266 62	678 187	00 05 47	4	0	0	39	Padia Fran	Road/10mins
		Nandi	572	737	Sopas	3/9	02	187	09.05.17		U	U	U	Radio Enga	Formally under Nandi but due
					Sopas	507	98	248	09.05.17	1	0	0	25	Radio Enga	to tribal fight this new village
		Laibridge		NEW											was form
		Tokakamas	393	506	Sopas	274	50	123	09.05.17	1	0	0	14	Radio Enga	Road/trek
		Itaimanda	279	359	Sopas	254	56	120	09.05.17	1	0	0	0	Radio Enga	Trek
7	SAKARI	P	1,046	1,348		1,818	442	860		3	0	0	175		
		Sakarip	255	328	Sopas	645	100	307	09.05.17	1	0	0		Radio Enga	Road
		Warumanda	492	634	Sopas	710	126	337	09.05.17	1	0	0		Radio Enga	Road
		Waimu	272	350	Sopas	463	216	216	09.05.17	1	0	0	77	Radio Enga	Road
<u> </u>		Sakarip C/sch, A/post, E/Schoo	27	35	Sopas	4.500	967	B C 2							Included under Sakarip
8	SOPAS		1,037	1,337		1,568	287	730	44.05.15	4	0	0	0	D- # 5	5 .
		Sopas	95	122	Sopas	617	99	290	14.05.17	1	0	0	0	Radio Enga	Road
		Kepakanda	129	166	Sopas	344	71	159	14.05.17	1	0	0	0	Radio Enga	Road
1		Lakaiyok	211	272	Sopas	357	67	165	10.05.17	1	0	0	0	Radio Enga	Road Same as Kenesanda
		Lyainlyam	323	417	Sopas	250	50	116	14.05.17	1	0	0	0	Radio Enga	Same as Kepesanda
		Sopas Int. Community School N	279 2,712	359 3,496	Sopas	1,818	266	845		3	0	0	0		Included under Sopas
			2.112	3,496					10 OF 17					D !: F	
9	KIWI	Kiwi		900	Sonse	808	100						()	Radio Fra	
9		Kiwi Kemaumale	697	898 840	Sopas Sopas	806 536	100	371 255	10.05.17 09.05.17	1	0	0	0	Radio Enga Radio Enga	trek Road
9		Kemaumale	697 652	840	Sopas	536	100	255	09.05.17	1	0	0	0	Radio Enga	Road
9		Kemaumale Lanemanda	697 652 1,043	840 1,344	Sopas Sopas	536 476	100 66	255 219					0	_	Road walk
		Kemaumale	697 652	840	Sopas	536	100	255	09.05.17	1	0	0	0	Radio Enga	Road

LLG	WARD	VILLAGE	Estimated 2014 Population Based On 2000 Census	Estimated 2017 Population Based On 2014 Census	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Andalmale	212	274	Sopas	400	71	194	13.05.17	1	0	0	0	Radio Enga	Road/trek
		Laken	228	294	Sopas										Included under Kaiap
	144444	Kepesanda	219	283	Sopas	0.445	200	000					•		Same as LyainLyam
11	KAMAS	Vamas	1,633 474	2,105 611	Sopas	2,145 630	390 100	998 291	10.05.17	1	0	0	0	Radio Enga	Road/trek
		Kamas Pindawale	474	525	Sopas	357	100	165	10.05.17	1	0	0	0	Radio Enga	·
		Talubais	410	528	Sopas	665	125	314	10.05.17	1	0	0	0	Radio Enga	Road
		Lyuk	341	440	Sopas	493	65	228	12.05.17	1	0	0	0	Radio Enga	Road
12	KOPEN		1,126	1,245		1,600	277	734		3	0	0	103		
		Kopen	331	647	Wabag Hosp.2	998	193	460	15.05.17	1	0	0	58	FM Enga	Road
		Pakopye	729	448	Wabag Hosp.2	315	38	145	15.05.17	1	0	0	0	FM Enga	Road
		Kopen S/School	66	151	Wabag Hosp.2	287	46	129	15.05.17	1	0	0	45	FM Enga	Road
13	SARI	0 :	1,604	1,899	M/-b	1,979	605	910	45.05.47	2	0	0	196	EM E	DI
		Sari Amala	908 697	853 1,046	Wabag Hosp.2 Wabag Hosp.2	1,128 851	165 440	513 397	15.05.17 16.05.17	1	0	0	132 64	FM Enga FM Enga	Road Road
14	TORE	Amaia	1,620	1,728	wabay nosp.z	1,735	293	792	10.05.17	3	0	0	71	FIVI Eliga	Noau
	TORLE	Tore	835	798	Sopas	1,190	188	545	11.05.17	1	0	0	0	FM Enga	Road
		Majob	413		Wabag Hosp.2	378	75	170	16.05.17	1	0	0	42	FM Enga	Road
		Lyano	372	193	Wabag Hosp.2	167	30	77	16.05.17	1	0	0	29	FM Enga	Road
		Kondomanda		161	Wabag Hosp.2										Not covered due to Tribal fight
		Landamanda		70	Wabag Hosp.2										Not covered due to Tribal fight
15	TEREMA		1,781	2,781)A/-1 ··	4,534	861	2,108	40.0= :-	4	0	0	380	EA - E	5 .
		Teremanda	807	1,309	Wabag Hosp.2	2,407	431	1,132 357	16.05.17	1	0	0	305	FM Enga	Road
		Kwimas Lepatenges	629 183	659 406	Wabag Hosp.2 Wabag Hosp.2	788 797	156 162	357	16.05.17 16.05.17	1	0	0	36 16	FM Enga FM Enga	Road Road
		Pokatu	162	400	Wabag Hosp.2	542	112	247	16.05.17	1	0	0	23	FM Enga	Road
16	AIPINAN		2,524	1,867	2g . 100p.2	3,423	539	1,584		5	0	0	209	Liiga	
		Aipinamanda	1,146	544	Wabag Hosp.2	203	27	94	20.05.17	1	0	0	27	FM Enga	Road
		Itatep	376	349	Wabag Hosp.2	636	100	292	20.05.17	1	0	0	28	FM Enga	Road
		Tolem	268	84	Wabag Hosp.2	227	50	105	20.05.17	1	0	0	49	FM Enga	Road
		Diwiteges	544	666	Wabag Hosp.2	2,160	331	1,002	20.05.17	1	0	0	90	FM Enga	Road
		Mangapos	190	225	Wabag Hosp.2	197	31	91	20.05.17	1	0	0	15	FM Enga	Road
17	LAKEMA		2,717 760	2,090 1,218	Weber Heer 2	2,645 1,443	461 250	1,351 677	19.05.17	3 1	0	0	26	FM Enga	Road
		Lakemanda Waipu	705	636	Wabag Hosp.2 Wabag Hosp.2	810	150	493	19.05.17	1	0	0	19	FM Enga	Road
		Pandam	987	030	Wabag Hosp.2	392	61	181	19.05.17	1	0	0	7	FM Enga	Road
		Opeam	265	236	Wabag Hosp.2									<u> </u>	Covered under Waipu
18	SAKALIS	+ '	1,918	2,053		2,704	499	1,260		3	1	0	335		,
		Sakalis	677	516	Wabag Hosp.2	467	100	226	22.05.17	1	1	0	3	FM Enga	Road
		Sangurap	888	988	Wabag Hosp.2	1,412	249	653	22.05.17	1	0	0	236	FM Enga	Road
		Sagasambes	166	549	Wabag Hosp.2	825	150	381	22.05.17	1	0	0	96	FM Enga	Road
40	VE 4.0	Yakale	187	0	Wabag Hosp.2	4.040	040	4.040			•		440		Covered under Sagasambes
19	KEAS	Vaaa	1,616 765	2,552 829	Wabag Hosp.2	4,342 1,606	648 250	1,942 685	21.05.17	1	2 1	0	418 77	FM Enga	Road
		Keas Pawas	851	1,724	Wabag Hosp.2	2,736	398	1,257	21.05.17	1	1	0	341	FM Enga	Road
20	IRELYA		2,954	3,962	Trabag Troop.2	4,780	736	2,184	21.00.11	5	3	0	231	· ··· Lingu	11000
		Irelya	791	1,108	Wabag Hosp.2	1,560	225	707	18.05.17	1	1	0	102	FM Enga	Road
		Aipus	1,296	1,549	Wabag Hosp.2	1,915	294	877	22.05.17	1	1	0	23	FM Enga	Road
		Imabus	153	522	Wabag Hosp.2	320	61	147	18.05.17	1	0	0	20	FM Enga	Survey Book lost
		Lubulubus	548		Wabag Hosp.2	650	106	299	18.05.17	1	1	0	63	FM Enga	Road
		Irelya T/up Mission /sch & A/P	166	119	Wabag Hosp.2	335	50	154	18.05.17	1	0	0	23	FM Enga	Road
21	WAKUM		628	1,252	Wabag Hosp.2	1,560	211	701 581	10 0F 17	1	0	0	127 95	FM 5	Road
		Wakumale Waeamu	540 88	995 257	Wabag Hosp.2	1,301 259	161 50	120	19.05.17 18.05.17	1	0	0	32	FM Enga FM Enga	Road
22	LENKI	**acamu	3,468	3,589	., avag 1105p.2	4,477	891	2,152	10.00.17	4	1	0	454	i wi Liiga	Noau
		Lenki	1,401	1,855	Wabag Hosp.2	2,259	444	1,131	18.05.17	1	1	0	218	FM Enga	Road
	 										0	0	83	FM Enga	Road
	<u></u>	Pipi	652	413	Wabag Hosp.2	622	135	287	18.05.17	1	U				
		Kepakanda	652 767	413 819	Wabag Hosp.2 Wabag Hosp.2	622 865	135 162	287 397	18.05.17 18.05.17	1	0	0	77	FM Enga	Road
		Kepakanda Ipalemanda	767 647	819 501		865 731	162 150	397 337		1	0	0	76		Road Road
23	AINUMA	Kepakanda Ipalemanda NDA	767 647 1,418	819 501 1,897	Wabag Hosp.2 Wabag Hosp.2	865 731 760	162 150 167	397 337 349	18.05.17 18.05.17	1 1 2	0 0 0	0 0	76 52	FM Enga FM Enga	Road
23	AINUMA	Kepakanda Ipalemanda NDA Ainumanda	767 647 1,418 678	819 501 1,897 486	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234	162 150 167 58	397 337 349 108	18.05.17 18.05.17 17.05.17	1 1 2 1	0 0 0 0	0 0 0	76 52 18	FM Enga FM Enga FM Enga	Road Road
23	AINUMA	Kepakanda Ipalemanda NDA Ainumanda Tumbilam	767 647 1,418	819 501 1,897 486 1,174	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760	162 150 167	397 337 349	18.05.17 18.05.17	1 1 2	0 0 0	0 0	76 52	FM Enga FM Enga	Road Road Road
		Kepakanda Ipalemanda NDA Ainumanda Tumbilam Lamand	767 647 1,418 678 740	819 501 1,897 486 1,174 237	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234 526	162 150 167 58 109	397 337 349 108 241	18.05.17 18.05.17 17.05.17	1 1 2 1	0 0 0 0	0 0 0	76 52 18 34	FM Enga FM Enga FM Enga	Road Road
	AINUMA	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA	767 647 1,418 678 740	819 501 1,897 486 1,174 237 864	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234 526	162 150 167 58 109	397 337 349 108 241	18.05.17 18.05.17 17.05.17 17.05.17	1 1 2 1	0 0 0 0	0 0 0	76 52 18	FM Enga FM Enga FM Enga FM Enga	Road Road Road
		Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda	767 647 1,418 678 740 1,119	819 501 1,897 486 1,174 237	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234 526	162 150 167 58 109	397 337 349 108 241	18.05.17 18.05.17 17.05.17	1 1 2 1 1	0 0 0 0	0 0 0 0	76 52 18 34 96	FM Enga FM Enga FM Enga	Road Road Road Fighting zone
24		Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa	767 647 1,418 678 740	819 501 1,897 486 1,174 237 864 354	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234 526 1,036 723	162 150 167 58 109 159 99	397 337 349 108 241 477 332	18.05.17 18.05.17 17.05.17 17.05.17	1 1 2 1 1 1	0 0 0 0 0	0 0 0 0	76 52 18 34 96 71	FM Enga FM Enga FM Enga FM Enga FM Enga	Road Road Road Fighting zone Road
24	RAKAM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa	767 647 1,418 678 740 1,119 790 329	819 501 1,897 486 1,174 237 864 354 510	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234 526 1,036 723 313	162 150 167 58 109 159 99 60	397 337 349 108 241 477 332 145	18.05.17 18.05.17 17.05.17 17.05.17	1 1 2 1 1 2 2 1 1	0 0 0 0 0 1	0 0 0 0 0	76 52 18 34 96 71 25	FM Enga FM Enga FM Enga FM Enga FM Enga	Road Road Road Fighting zone Road
24	RAKAM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA	767 647 1,418 678 740 1,119 790 329 1,478	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184	162 150 167 58 109 159 99 60 297 50	397 337 349 108 241 477 332 145 603 82 248	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 2 1 1 1 3	0 0 0 0 0 1 1 0 1	0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125	FM Enga FM Enga FM Enga FM Enga FM Enga FM Enga	Road Road Road Fighting zone Road Road Road
24	RAKAM/ YOKOM	Kepakanda Ipalemanda NDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa ANDA Yokomanda	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644	819 501 1,897 486 1,174 237 864 510 1,002 189 338 474	Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2 Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531	162 150 167 58 109 159 99 60 297 50 129	397 337 349 108 241 477 332 145 603 82 248 273	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 2 1 1 1 3 1 1 1	0 0 0 0 0 1 1 0 1 0	0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18	FM Enga	Road Road Road Fighting zone Road Road Road
24	RAKAM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa ANDA Yokomanda Wanumanda Porotop	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316	Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037	162 150 167 58 109 159 99 60 297 50 129 118	397 337 349 108 241 477 332 145 603 82 248 273 943	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 2 1 1 3 1 1 1 4	0 0 0 0 0 1 1 0 1 0	0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18	FM Enga	Road Road Road Fighting zone Road Road Road Road Road Road Road Road
24	RAKAM/ YOKOM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA Yokomanda Wanumanda Porotop Imi	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689 628	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316 514	Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037 627	162 150 167 58 109 159 99 60 297 50 129 118 392	397 337 349 108 241 477 332 145 603 82 248 273 943 291	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 2 1 1 3 1 1 1 4	0 0 0 0 0 1 1 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18 81	FM Enga	Road Road Road Fighting zone Road Road Road Road Road Road Road Roa
24	RAKAM/ YOKOM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA Yokomanda Wanumanda Porotop Imi Makapaumanda	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689 628 1,017	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316 514 666	Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037 627 279	162 150 167 58 109 159 99 60 297 50 129 118 392 100 62	397 337 349 108 241 477 332 145 603 82 248 273 943 291	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 3 1 1 1 4 1 1 1 1 1	0 0 0 0 0 1 1 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18 81 10 4	FM Enga	Road Road Road Fighting zone Road Road Road Road Road Road Road Roa
24	RAKAM/ YOKOM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA Yokomanda Wanumanda Porotop Imi Makapaumanda Naputes	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689 628 1,017 526	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316 514 666 726	Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037 627 279 724	162 150 167 58 109 159 99 60 297 50 129 118 392 100 62	397 337 349 108 241 477 332 145 603 82 248 273 943 291 129 336	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 3 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 1 1 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18 81 10 4 54	FM Enga	Road Road Road Fighting zone Road Road Road Road Road Road Road Roa
24	RAKAM/ YOKOM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA Yokomanda Wanumanda Porotop Imi Makapaumanda	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689 628 1,017 526 517	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316 666 726 410	Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037 627 279	162 150 167 58 109 159 99 60 297 50 129 118 392 100 62	397 337 349 108 241 477 332 145 603 82 248 273 943 291	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 3 1 1 1 4 1 1 1 1 1	0 0 0 0 0 1 1 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18 81 10 4	FM Enga	Road Road Road Fighting zone Road
24	RAKAM/ YOKOM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA Yokomanda Wanumanda Porotop Imi Makapaumanda Naputes	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689 628 1,017 526 517	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316 514 666 726	Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037 627 279 724 407	162 150 167 58 109 159 99 60 297 50 129 118 392 100 62 147 83	397 337 349 108 241 477 332 145 603 82 248 273 943 291 129 336	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 2 1 1 3 1 1 1 1 4 1 1	0 0 0 0 0 1 1 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18 81 10 4 54	FM Enga	Road Road Road Fighting zone Road
24	RAKAM/ YOKOM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA Yokomanda Wanumanda Porotop Imi Makapaumanda Naputes Watepitu	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689 628 1,017 526 517	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316 666 726 410 406	Wabag Hosp.2	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037 627 279 724 407 911	162 150 167 58 109 99 60 297 50 129 118 392 100 62 147 83	397 337 349 108 241 477 332 145 603 82 248 273 943 291 129 336 187	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 2 1 1 3 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 1 1 0 1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18 81 10 4 54 13 9	FM Enga	Road Road Road Fighting zone Road
24 25 26 27	RAKAM/ YOKOM	Kepakanda Ipalemanda ANDA Ainumanda Tumbilam Lamand ANDA Rakamanda Mugutesa IANDA Yokomanda Wanumanda Porotop Imi Makapaumanda Naputes Watepitu Wee	767 647 1,418 678 740 1,119 790 329 1,478 328 506 644 2,689 628 1,017 526 517 1,067	819 501 1,897 486 1,174 237 864 354 510 1,002 189 338 474 2,316 666 726 410 406	Wabag Hosp.2 Lakopenda HC	865 731 760 234 526 1,036 723 313 1,305 184 531 590 2,037 627 279 724 407 911 359	162 150 167 58 109 99 60 297 50 129 118 392 100 62 147 83 106 56	397 337 349 108 241 477 332 145 603 82 248 273 943 291 129 336 187 430	18.05.17 18.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17 17.05.17	1 1 2 1 1 1 2 1 1 3 1 1 1 1 4 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1	0 0 0 0 0 1 1 0 1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	76 52 18 34 96 71 25 125 18 89 18 81 10 4 54 13 9	FM Enga	Road Road Road Fighting zone Road Road

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TWAGALOGEN 249 299	3	NET NAI PASALA WAILEP	Biak Pai Emo I Kotkot (GUS) Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari	7,822 942 427 392 123 178 178 1,210 906 305 657 657 528	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909	211 100 61 50 46 46 320 141 179 100 100 205	538 265 160 113 109 109 949 343 606 282 282 454	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17	3 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek
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8 NELYAKU 337 501 275 70 138 1 0 0 0 Image: Control of the control o	3 3 5 6	NET NAI PASALA WAILEP TONGAI	Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok	7,822 942 427 392 123 178 1,210 906 305 657 657 528 400 128 689	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 602 1,143 779 364 925	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581	211 100 61 50 46 46 320 141 179 100 205 118 87 122	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 31.05.17	3 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 3 Day Trek I Day Trek
Nelyaku 337 501 PHO 275 70 138 31.05.17 1 0 0 0 FM Enga I Day Trek	3 3 5 6	NET NAI PASALA WAILEP TONGAF	Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN	7,822 942 427 392 123 178 1,210 906 305 657 528 400 128 689 689	267 10,142 1,278 577 497 204 295 1,216 709 507 602 1,143 779 364 925 925	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581	211 100 61 50 46 46 320 141 179 100 205 118 87 122 50	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 140	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 31.05.17 01.06.17	3 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 121 99 22 40 40 50	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek
9 ILYA 225 240 267 62 133 1 0 0 57	3 3 4 5 6	NET NA PASALA WAILEP TONGAF KAIYAM	Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen	7,822 942 427 392 123 178 1,210 906 305 657 528 400 128 689 689 249	267 10,142 1,278 577 497 204 295 1,216 709 507 602 1,143 779 364 925 925 299	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 3662 581 581 334	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 50 50	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 290 140	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 31.05.17 01.06.17	3 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek I Day Trek
Ilya	3 3 4 5 6	BIAK NET NAI PASALA WAILEP TONGAF KAIYAM WAGAL	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka IATOK Kaiyamatok OGEN Wagalogen	7,822 942 427 392 123 178 1,210 906 305 657 657 528 400 128 689 689 249	267 10,142 1,278 577 497 204 295 1,216 709 507 602 1,143 779 364 925 925 299	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 334 275	211 100 61 50 46 46 320 141 179 100 205 118 87 122 50 50 70	538 265 160 113 109 109 343 606 282 282 454 273 181 290 140 140 138	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 31.05.17 01.06.17 01.06.17	3 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 50 0	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek 2 Day Trek
Poteaka 723 634 PHO 542 100 272 01.06.17 1 0 0 0 FM Enga I Day Trek	2 3 4 5 6	NET NAI PASALA WAILEP TONGAF KAIYAM WAGAL	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka IATOK Kaiyamatok OGEN Wagalogen	7,822 942 427 392 123 178 178 1,210 906 305 657 528 400 128 689 249 249 337	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779 364 925 925 299 299 501	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 334 275	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 50 50 70	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 290 140 140 138	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 31.05.17 01.06.17 01.06.17	3 1 1 1 1 1 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 50 0	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek 2 Day Trek
11 WARAKOM 261 667 567 111 282 1 0 0 111 Image: stress of the content of the cont	2 3 4 5 6	NET NAI PASALA WAILEP TONGAF KAIYAM WAGAL	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn D Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen GU Nelyaku	7,822 942 427 392 123 178 178 1,210 906 305 657 657 528 400 128 689 249 249 337 337	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779 364 925 299 299 501 501	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 334 275 275	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 122 50 70 70 62	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 290 140 140 138 138	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50 0 57	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 3 Day Trek I Day Trek
Warakom 261 667 PHO 567 111 282 02.06.17 1 0 0 111 FM Enga I Day Trek	1 2 3 4 5 6 7 8	NET NA PASALA WAILEP TONGAR KAIYAM WAGAL NELYAK ILYA	RURAL Biak Pai Emo I Kotkot (GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen (U Nelyaku Ilya	7,822 942 427 392 123 178 1,210 906 305 657 657 528 400 128 689 249 337 337 225 723	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779 364 925 299 299 501 501 240	PHO	9,225 1,077 531 320 226 219 1,895 686 1,209 565 565 909 547 362 581 581 334 334 275 275	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 122 50 70 70 62 62	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 290 140 138 138 133	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50 0 57 57	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 3 Day Trek I Day Trek
12 POKALE 1,519 1,969 1,681 311 840 3 0 0 271 Description Pokale 823 550 PHO 449 100 225 31.05.17 1 0 0 100 FM Enga I Day Trek Malandu 695 974 PHO 811 150 405 31.05.17 1 0 0 110 FM Enga I Day Trek Witinana 444 PHO 421 61 210 31.05.17 1 0 0 61 FM Enga 1 Day Trek 13 PENALE 305 373 313 72 157 2 0 0 61 FM Enga 3 Day Trek Kupin 146 131 PHO 88 22 44 03.06.17 1 0 0 20 FM Enga 3 Day Trek	1 2 3 4 5 6 7 8	NET NA PASALA WAILEP TONGAR KAIYAM WAGAL NELYAK ILYA	RURAL Biak Pai Emo I Kotkot (GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen (U Nelyaku Ilya	7,822 942 427 392 123 178 1,210 906 305 657 657 528 400 128 689 249 249 337 337 225 723	267 10,142 1,278 577 497 204 295 1,216 709 507 602 1,143 779 364 925 299 299 299 501 501 240 634	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 275 275 267 267 542	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 122 50 70 62 62 100	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 140 1408 138 133 133 272 272	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50 0 57 57	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 3 Day Trek I Day Trek
Pokale 823 550 PHO 449 100 225 31.05.17 1 0 0 100 FM Enga I Day Trek	1 2 3 4 5 6 7 8 9	NET NA PASALA WAILEP TONGAR KAIYAM WAGAL NELYAK ILYA POTEAK	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen GU Nelyaku Ilya KA Poteaka OM	7,822 942 427 392 123 178 1,210 906 657 657 528 400 128 689 249 249 337 337 225 723 723	267 10,142 1,278 577 497 204 295 1,216 709 507 602 1,143 779 364 925 925 299 299 501 501 240 2440 634 634	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 275 275 267 267 542 542	211 100 61 50 46 46 46 320 141 179 100 205 118 87 122 122 50 50 70 62 62 100 100	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 290 140 1438 138 133 272 272 282	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50 0 57 57 0	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek
Malandu 695 974 PHO 811 150 405 31.05.17 1 0 0 110 FM Enga I Day Trek Witinana 444 PHO 421 61 210 31.05.17 1 0 0 61 FM Enga 1 Day Trek 13 PENALE 305 373 313 72 157 2 0 0 61 Kupin 146 131 PHO 88 22 44 03.06.17 1 0 0 20 FM Enga 3 Day Trek	1 2 3 4 5 6 7 8 9	NET NAI PASALA WAILEP TONGAE KAIYAM WAGAL NELYAK ILYA POTEAK	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen CU Nelyaku Illya KA Poteaka OM Warakom	7,822 942 427 392 123 178 1,210 906 657 657 528 400 128 689 249 249 337 225 723 723 261	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779 364 925 299 299 501 501 240 634 634 667	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 334 275 275 267 542 542 567	211 100 61 50 46 46 46 320 141 179 100 100 205 118 87 122 122 50 70 70 62 62 62 100 100 111	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 290 140 140 138 133 133 272 282 282	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 2 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 17 100 100 121 99 22 40 40 50 0 57 57 0 0 111	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek
Witinana 444 PHO 421 61 210 31.05.17 1 0 0 61 FM Enga 1 Day Trek 13 PENALE 305 373 313 72 157 2 0 0 61 FM Enga 1 Day Trek Kupin 146 131 PHO 88 22 44 03.06.17 1 0 0 20 FM Enga 3 Day Trek	1 2 3 4 5 6 7 8 9	NET NAI PASALA WAILEP TONGAE KAIYAM WAGALI NELYAK ILYA POTEAK WARAK	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen CU Nelyaku Iliya CA Poteaka OM Warakom	7,822 942 427 392 123 178 1,210 906 305 657 657 528 400 128 689 249 249 337 337 225 723 723 261 1,519	267 10,142 1,278 577 497 204 295 1,216 709 507 602 6,1,143 779 364 925 299 299 501 501 240 634 634 667 667	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 275 267 267 267 542 542 567 1,681	211 100 61 50 46 46 46 320 141 179 100 205 118 87 122 122 50 70 70 62 62 100 100 111 111	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 140 140 138 133 133 272 272 282 282 840	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50 0 57 57 0 0 111 111 271	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek I Day Trek
13 PENALE 305 373 313 72 157 2 0 0 61 Kupin 146 131 PHO 88 22 44 03.06.17 1 0 0 20 FM Enga 3 Day Trek	1 2 3 4 5 6 7 8 9	NET NAI PASALA WAILEP TONGAE KAIYAM WAGAL NELYAK ILYA POTEAK	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen CU Nelyaku Ilya CA Poteaka OM Warakom E Pokale	7,822 942 427 392 123 178 1,210 906 305 657 657 528 400 128 689 249 249 337 337 225 723 723 261 1,519	267 10,142 1,278 577 497 204 295 1,216 709 507 602 6,143 779 364 925 299 299 501 501 240 240 634 634 667 1,969	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 334 275 267 267 542 542 567 1,681	211 100 61 50 46 46 46 320 141 179 100 100 205 118 87 122 50 50 70 62 62 62 100 100 111 111 311	538 265 160 113 109 109 343 606 282 282 454 273 181 290 140 140 138 138 133 272 272 282 282 840 225	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 2 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 50 0 57 57 0 111 111 271	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek I Day Trek
Kupin 146 131 PHO 88 22 44 03.06.17 1 0 0 20 FM Enga 3 Day Trek	1 2 3 4 5 6 7 8 9	NET NAI PASALA WAILEP TONGAF KAIYAM WAGAL NELYAK ILYA POTEAK WARAK	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn D Wailep (Ketai) RI Tongari Naleaka AATOK Kaiyamatok OGEN Wagalogen GU Nelyaku Ilya KA Poteaka OM Warakom E Pokale Malandu	7,822 942 427 392 123 178 1,210 906 305 657 657 528 400 128 689 249 249 337 337 225 723 723 261 1,519	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779 364 925 299 299 501 501 240 240 634 667 667 1,969 550	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 275 275 267 267 542 542 567 567 1,681 449 811	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 50 70 70 62 62 100 100 111 111 111 1100	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 140 140 138 138 133 272 272 282 282 840 225	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 50 0 57 57 0 0 111 111 111 271	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek
	1 2 2 3 3 4 4 5 5 6 7 7 10 11 11 12 12 12 12 12 12 12 12 12 12 12	NET NAI PASALA WAILEP TONGAF KAIYAM WAGAL NELYAK ILYA POTEAK	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen GU Nelyaku Iliya KA Poteaka OM Warakom Pokale Malandu Witinana	7,822 942 427 392 123 178 178 1,210 906 305 657 658 400 128 689 249 249 337 225 723 723 261 1,519 823	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779 364 925 925 299 209 501 501 240 240 634 634 667 667 1,969 550	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 275 275 267 267 542 542 542 547 567 1,681 449 811	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 122 50 50 70 70 62 62 62 100 100 111 111 111 1100 150 61	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 140 140 1438 138 133 272 272 282 840 225	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50 0 57 57 0 0 111 111 271 100 110 61	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek I Day Trek
	1 2 2 3 3 4 4 5 5 6 7 7 10 11 11 12 12 12 12 12 12 12 12 12 12 12	BIAK NET NA PASALA WAILEP TONGAF KAIYAM WAGAL NELYAK ILYA POTEAK WARAK POKALE	RURAL Biak Pai Emo I Kotkot GUS Pasalagus Pasalagus Stn D Wailep (Ketai) RI Tongari Naleaka ATOK Kaiyamatok OGEN Wagalogen GU Nelyaku Iliya KA Poteaka OM Warakom E Pokale Malandu Witinana	7,822 942 427 392 123 178 178 1,210 657 657 528 400 128 689 249 249 337 337 225 723 723 261 1,519 823 695	267 10,142 1,278 577 497 204 295 295 1,216 709 507 602 1,143 779 364 925 925 299 209 501 501 240 634 634 667 667 1,969 550 974 444 373	PHO	9,225 1,077 531 320 226 219 219 1,895 686 1,209 565 565 909 547 362 581 581 334 275 275 267 267 542 542 542 567 1,681 449 811 421 313	211 100 61 50 46 46 320 141 179 100 100 205 118 87 122 122 50 70 70 62 62 100 100 111 111 110 150 61	538 265 160 113 109 109 949 343 606 282 282 454 273 181 290 140 138 133 133 272 272 282 282 840 225 405 210	02.06.17 01.06.17 01.06.17 01.06.17 01.06.17 31.05.17 01.06.17 01.06.17 01.06.17 02.06.17 01.06.17 01.06.17 01.06.17	3 1 1 1 1 1 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	203 92 61 50 14 14 235 62 173 100 100 121 99 22 40 40 50 0 57 57 0 0 111 111 1271 100 110 61 61	FM Enga	Road From Pasalagus Airstrip I Day Trek I Day Trek 1 Day Trek 3 Day Trek I Day Trek

ANNEX FIVE

ENGA PROVINCE WAPENAMANDA DISTRICT POPULATION 2017 LLIN DISTRIBUTION SUMMARY SHEET

		RIBUTION SUMMART SI													
LLG	WARD	VILLAGE	Estimated 2014 Population Based On 2000 Census	Estimated 2017 Population Based On 2014 Census	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
WAI	PENAI	MANDA	62,934	62,934		60,154	12,250	29,352		111	19	0	3399	67	
		MANDA RURAL	44,595			40,107	8,146	19,656		76	19	0	3119	60	
	AWA		1,580	976		782	182	383		2	0	0	113		
_		Awas	481	287	Yalis HC	365	89	175	14.05.17	1	0	0	48	KBM	Road/3 Hr Trek
		Wainapkam	1,099	689	Yalis HC	417	93	208	11.04.17	1	0	0	65	KBM	Road/3 Hr Trek
2	TUPII	KORES	1,271	1,477		1,253	283	613		2	0	0	220		
		Tupikores	1,030	1,211	Yalis HC	1,013	236	495	14.05.17	1	0	0	194	KBM	Road
		Malimanda	241	267	Yalis HC	240	47	118	14.05.17	1	0	0	26	KBM	Road
3	AIPAI	ND	582	378		503	99	247		1	0	0	82		
		Aipand	387	378	Yalis HC	503	99	247	14.05.17	1	0	0	82	KBM	Road
		Kaimanda	195	0	Yalis HC										Non Existant
4	KAIM	ANDA	596	677		522	128	253		2	0	0	64		
		Kaimanda	248	362	Yalis HC	308	79	150	13.05.17	1	0	0	30	KBM	Road/2 Hr Trek
		Yomo	348	315	Yalis HC	214	49	103	13.05.17	1	0	0	34	KBM	Road/2 Hr Trek
5	TOME	BES	997	909		1,026	195	502		3	0	0	90		
		Tombes	483	504	Yalis HC	205	55	102	13.05.17	1	0	0	36	KBM	Road
		Aparapalus	514	405	Yalis HC	463	76	226	13.05.17	1	0	0	42	KBM	Road
		Konjamanda		NEW	Yalis HC	358	64	174	13.05.17	1	0	0	12	KBM	Road
6	YALIS		1,644	1,705		1,537	347	734		3	0	0	211		
		Yalis	844	922	Yalis HC	901	199	430	12.05.17	1	0	0	109	KBM	Road
		Konjanmanda	545	565	Yalis HC	407	98	193	12.05.17	1	0	0	53	KBM	Road
		Isipos	255	218	Yalis HC	229	50	111	12.05.17	1	0	0	49	KBM	Road
7	YUK		825	803		783	175	393		1	0	0	34		
		Yuk	825	803	Yalis HC	783	175	393	12.05.17	1	0	0	34	KBM	Road/2 Hr Trek
8	ALUN	IBALAM	574	560		515	107	264		2	2	0	0		
		Alumbalam	186	182	ımbisanda F	188	36	94	18.05.17	1	1	0	0	NBC	Trek
		Imalemanda	388	378	ımbisanda F	327	71	170	18.05.17	1	1	0	0	NBC	Trek
9	ELYA	KANDA	599	656		642	148	346		1	1	0	0		
40	T A 1 / A	Elyakanda	599	656	ımbisanda F	642	148	346	17.05.17	1	1	0	0	NBC	Trek
10	TAKA	EPOS	1,430	1,621		1,406	360	771		2	2	0	39		
		Takaepos	964	1,219	ımbisanda F	1,092	265	566	18.05.17	1	1	0	0	NBC	Road
44	N A A N A I	Beta BISANDA	467	401 1,872	ımbisanda H	314	95	205	18.05.17	1	1	0	39	NBC	Road
11	IVIAIVII		2,227			1,932	355	956	47.05.47	3	1		0	NDO	Deed
		Mambisanda Yalis	1,151 744	832 819	ımbisanda H ımbisanda H	1,046	184 131	523 306	17.05.17 18.05.17	1	0	0	0	NBC NBC	Road Road
		Mambisanda District Hos	333	222	ımbisanda F	260	40	127	18.05.17	1	1	0	0	NBC	Road
12	KLIME	BASKUM	1,463	1.800	iiibisailua r	1,364	239	679	10.03.17	2	1	0	161	INDC	Nodu
12	KOWE	Kumbaskam	1,463	1,259	ımbisanda F	1,064	170	528	18.05.17	1	1	0	54	NBC	Road
		Kupiapos	456	541	mbisanda l	300	69	151	18.05.17	1	'	U	107	NBC	Road
13	WAE		986	721	iiibisailua i	1,027	125	507	10.03.17	2	2	0	107	INDC	Noau
13	VVAL	Waetes	554		ımbisanda F	575	39	282	13.05.17	1	1	0	10	NBC	Road
		Komdamanda	433		mbisanda F		86	225	17.05.17	1	1	0	0	NBC	Road
14	LAUA		1,699	1,396		1,437	264	674		2	0	0	108	1120	
		Lauanda	1,215		akopenda H		184	428	15.05.17	1	0	0	63		Road
		Pumbu	484	460	akopenda H	526	80	246	15.05.17	1	0	0	45		Road
15	PINA		1,959	1,681		1,393	279	654		3	0	0	74		
		Pina	683		akopenda H		99	268	15.05.17	1	0	0	3		Road
		Milates	706		akopenda H		100	257	15.05.17	1	0	0	29		Road
		Aiyalpos	570		akopenda H		80	129	15.05.17	1	0	0	42		Road
16	YAIB		2,002	2,433	V	2,234	418	1,046	40.55 :=	4	0	0	325	NDC 2 =	
		Yaibos	837	772		763	150	346	13.05.17	1	0	0	82	NBC & FM	Road
		Aipipas	923	1,087	Yaibos HC		183	467	13.05.17	1	0	0	165	NBC & FM	Road
		Yaibos Mission /Sch, Hc & Amapyaka Int/School	181 61	278 297	Yaibos HC Yaibos HC	264 222	43 42	126 107	13.05.17	1	0	0	43 35	NBC & FM NBC & FM	Road Road
17	OPAK		1,459	1,452	i aibus HC	1,291	272	612	13.05.17	2	0	0	177	NDC & FIM	nuau
17	OPAR	Opakpos	1, 459 476		Yaibos HC		100	243	13.05.17	1	0	0	100	NBC & FM	Road
-		Оракроѕ Maremanda	983	818			100	369	13.05.17	1	0	0	77	NBC & FM	Road
1Ω	PAUS		2,279	1,783	i aibus HU	1,696	327	806	10.00.17	2	0	0	244	INDO & FIVI	Noau
10		Pausa	1,630		Yaibos HC	1,468	277	696	13.05.17	1	0	0	195	NBC & FM	Road
		Elokmas	649	428	Yaibos HC	228	50	110	13.05.17	1	0	0	49	NBC & FM	Road
19	KHIM	AMANDA	1,727	2,376	. 4.503 110	2,204	473	1,056	. 5.55.17	3	0	0	288		1,000
	. CONVI	Kuimamanda	744	767	Yaibos HC		149	289	12.05.17	1	0	0	54	NBC & FM	Road
		Warumanda	179	711			136	326	12.05.17	1	0	0	101	NBC & FM	Road
		Lamdaimanda	804	898		897	188	441	12.05.17	1	0	0	133	NBC & FM	Road
20	KANI	ALAPOS	267	716	203110	777	184	365		1	0	0	180	5 0 1 101	
		Kondmanda	267	716	Yaibos HC		184	365	12.05.17	1	0	0	180	NBC & FM	Road
21		BAPUS	1,630	2,268	55 . 10	3,244	596	1,521		7	0	0	474		
		Pombapus	599		Yaibos HC	593	100	279	12.05.17	1	0	0	16	NBC & FM	Road
		Mukrumanda	401	353			98	161	12.05.17	1	0	0	97	NBC & FM	Road
		Lokaipoles	382	197	Yaibos HC	497	90	228	12.05.17	1	0	0	90	NBC & FM	Road
		Talyokos	113	844	Yaibos HC	1,352	242	635	12.05.17	1	0	0	205	NBC & FM	Road
		Pombapus Sch, Mss, V/C		257	Yaibos HC	201	23	95	12.05.17	1	0	0	23	NBC & FM	Road
		C.i.s.	101	198			15	45	12.05.17	1	0	0	15	NBC & FM	Road
		Kiguim		NEW	Yaibos HC		28	78	12.05.17	1	0	0	28	NBC & FM	(New Villge) Road
	1														, 3,

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			Estimated	Catimatad											
			2014	Estimated 2017											
LLG	WARD	VILLAGE		Population	Health	Population	House Holds	Nets	Date Of	Digicel	Bmobile	Citifon	Houses With	Radio	Comment
			Based On 2000	Based On 2014	Centre	Surveyed	Surveyed	Issued	Distribution	Digitor.	Diniobile	0.1	Radios	Networks	Common
			Census	Census											
22	KANA	MANDA	964	885		659	149	321		1	0	0	18		
		Kanamanda	964	885	Yalis HC	659	149	321	15.05.17	1	0	0	18	KBM	Road
23	MON		1,252	1,296		953	210	470		2	0	0	134		
		Mondop	731	707	Yalis HC	558	110	272	15.05.17	1	0	0	87	KBM	Road
	D 4 1 10	Newtown	521	590	Yalis HC	395	100	198	15.05.17	1	0	0	47	KBM	Road
24	PAUS		1,376	1,757		1,209	263	638	17.05.17	1	1	0	18	NDO	
25	KUME	Pausa	1,376 730	1,757 1,123	ımbisanda F	1,209 838	263 120	638 420	17.05.17	1	1 1	0	18 20	NBC	Road
23		Kumbi	730	1,123	ımbisanda F	838	120	420	19.05.17	1	1	0	20	NBC	Road/2 Hr Trek
26		AMANDA	1,088	1,484	irribiodrida i	1,506	225	646	10.00.11	1	1	0	23	NDO	TOGG/2 TH TTOK
	17 (10	Yaramanda	1,088	1.484	ımbisanda F		225	646	17.05.17	1	1	0	23	NBC	Road
27	TAPE		1,778	1,233		1,404	300	705		3	1	0	12		
		Tapenda	730	566	ımbisanda F	446	100	223	17.05.17	1	0	0	0	NBC	Road
		Kubas	819	541	ımbisanda H	648	150	327	17.05.17	1	0		12	NBC	Road
		Tapenda High School	229	126	ımbisanda F	310	50	155	17.05.17	1	1	0	0	NBC	Road
28	YAKA		947	1,046		503	161	312		2	0	0	0		
		Yakaedis	450	570		274	101	205	18.05.17	1	0	0	0		Road
- 00	LINIDA	Pelemanda	497	476	Unda HC	229	60	107	17.05.17	1	0	0	0		Road
29	UNDA	N Unda	1,711 664	2,042 854	Unda HC	1,139 507	239 99	579 254	10.05.47	1	0	0	0		الموادعة
-		Aiakalis	693	1.072	Unda HC	558	125	254	18.05.17 18.05.17	1	0	0	0		Road Road
-		Unda H/c & Primary Scho		1,072	Unda HC	74	15	36	17.05.17	1	0	0	0		Road
30	ANJI	Singarijo Grinnary Ocho	1,803	1,329	Silvario	1,140	218	546	27.00.17	2	0	0	0		Nodu
30	131	Anji	1,065	727	Unda HC	882	150	415	18.05.17	1	0	0	0		Road
		Tupyang	738	602	Unda HC	258	68	131	17.05.17	1	0	0	0		Road
31	NANA		1,265	694		396	100	208		1	0	0	0		
		Nanai	1,265	694	Unda HC	396	100	208	17.05.17	1	0	0	0		Road
32	WALY		1,204	742		898	216	496		3	0	0	0		
		Walya	1,182	579	Unda HC	602	150	300	17.05.17	1	0	0	0		Road
		Kumul Lodge	21	62	Unda HC	102	40	110	19.05.17	1	0	0	0		Road
		Langan		101	Unda HC	194	26	86	17.05.17	1	0	0	0		
33	IPIA	I.e.t.	1,824	1,052		853	201	425	45.05.47	3	3	0	0		+ .
		Ipia	1,145		ımbisanda F ımbisanda F	416 257	88	206	15.05.17	1	1	0	0	NBC	Trek Trek
		Apamas Yambalipos	679	232	imbisanda F imbisanda F	180	67 46	128 91	16.05.17 16.05.17	1	1	0	0	NBC NBC	Road/3 HRS Trek
34	WAPI	ENAMANDA URBAN	858	1.012	illibisaliua r	1,041	188	508	10.03.17	3	3	0	0	NDC	Road/3 FIRS TIEK
- 0-7	V V / (1 L	Lai Riverside	333	0	penamanda	287	50	140	17.05.17	1	1	0	0	NBC	Road
		Road "a" - Airstrip	169	564	penamanda		100	267	18.05.17	1	1	0	0	NBC	Road
		District Office	205	385			100	201	10.00.17		-				Included Under A Air Strip
			205 152	62	penamanda	UC	38	101	18.05.17	1	1	0	0	NBC	Included Under A Air Strip Road
		District Office Market - Bus Stop	152 0	62 0	penamanda	UC 208	38	101		1	1	0			· ·
	K RUF	District Office Market - Bus Stop	152 0 18,339	62 0 18,980	penamanda penamanda	208 20,047	38	101		1 35	1 0	0	280	NBC 7	· ·
	K RUF	District Office Market - Bus Stop RAL ES	152 0 18,339 919	62 0 18,980 858	penamanda penamanda	208 20,047 889	38 4,104 200	9,696 424	18.05.17	1 35 2	0 0	0 0	280		Road
		District Office Market - Bus Stop RAL ES Pipites	152 0 18,339 919 474	62 0 18,980 858 495	penamanda penamanda Pumakos H0	208 20,047 889 444	38 4,104 200 100	101	18.05.17	1 35 2	1 0	0	280		· ·
1		District Office Market - Bus Stop RAL ES Pipites Tupaposa	152 0 18,339 919	62 0 18,980 858 495	penamanda penamanda Pumakos H0 Pumakos H0	208 20,047 889 444	38 4,104 200	101 9,696 424 211	18.05.17	1 35 2	1 0 0	0 0 0	280 0		Road Road
1	PIPIT	District Office Market - Bus Stop RAL ES Pipites Tupaposa	152 0 18,339 919 474 445	62 0 18,980 858 495 363 813	penamanda penamanda Pumakos H0 Pumakos H0	20,047 889 444 445 1,016	38 4,104 200 100	9,696 424 211 213	18.05.17	1 35 2 1	1 0 0 0	0 0 0 0	280 0 0		Road Road
2	PIPIT	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS	152 0 18,339 919 474 445 685	62 0 18,980 858 495 363 813	penamanda penamanda Pumakos HO Pumakos HO	20,047 889 444 445 1,016	38 4,104 200 100 100 192	9,696 424 211 213 491	18.05.17 14.05.17 14.05.17	1 35 2 1 1	1 0 0 0 0	0 0 0 0	280 0 0 0		Road Road Road
2	PIPIT	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda	152 0 18,339 919 474 445 685 685 1,262	62 0 18,980 858 495 363 813 813 1,373 647	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,466 646	38 4,104 200 100 100 192 192 275 106	9,696 424 211 213 491 491 705	18.05.17 14.05.17 14.05.17	1 35 2 1 1 1 2	1 0 0 0 0 0	0 0 0 0 0	280 0 0 0 0		Road Road Road
2	SAPC KOMA	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda	152 0 18,339 919 474 445 685 685 1,262 465 797	62 0 18,980 858 495 363 813 813 1,373 647 726	penamanda penamanda Pumakos HG Pumakos HG Pumakos HG Pumakos HG	20,047 889 444 445 1,016 1,016 1,466 646	38 4,104 200 100 100 192 192 275 106 169	9,696 424 211 213 491 491 705 285	18.05.17 14.05.17 14.05.17 14.05.17	1 35 2 1 1 1 2 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	280 0 0 0 0 0 0 0		Road Road Road Road
2	SAPC KOMA YOGG	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS	152 0 18,339 919 474 445 685 685 1,262 465 797	62 0 18,980 858 495 363 813 1,373 647 726 1,359	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,466 646 820 2,311	38 4,104 200 100 100 192 192 275 106 169 300	9,696 424 211 213 491 491 705 285 420 894	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17	1 35 2 1 1 1 2 1 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0		Road Road Road Road Road Road Road
3	SAPC KOMA YOGO	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,466 646 820 2,311 2,311	38 4,104 200 100 100 192 192 275 106 169 300 300	9,696 424 211 213 491 491 705 285 420 894	18.05.17 14.05.17 14.05.17 14.05.17	1 35 2 1 1 1 2 1 1 1	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0		Road Road Road Road Road
3	SAPC KOMA YOGO	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,341	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,466 646 820 2,311 2,311 1,794	38 4,104 200 100 100 192 192 275 106 169 300 300 375	9,696 424 211 213 491 491 705 285 420 894 897	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17	1 35 2 1 1 1 1 2 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 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3	SAPC KOMA YOGO	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda	152 0 18,339 919 474 445 685 685 1,262 797 1,341 1,341 1,120 477	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,466 646 820 2,311 2,311 1,794 798	38 4,104 200 100 100 192 192 275 106 169 300 300 375	9,696 424 211 213 491 491 705 285 420 894 877 379	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17	1 35 2 1 1 1 2 1 1 1 1 1 3	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3	SAPC KOMA YOGO	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus	152 0 18,339 919 474 445 685 685 1,262 797 1,341 1,341 1,120 477 336	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149	9,696 424 211 213 491 491 705 285 420 894 894 877 379	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 14.05.17	1 35 2 1 1 1 1 2 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 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road Road
3 4 5	SAPO KOMA YOGO TANG	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda	152 0 18,339 919 474 445 685 685 1,262 797 1,341 1,341 1,120 477	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798	38 4,104 200 100 100 192 192 275 106 169 300 300 375	9,696 424 211 213 491 491 705 285 420 894 877 379	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17	1 35 2 1 1 1 2 1 1 1 1 1 1 3 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 4 5	SAPO KOMA YOGO TANG	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014 0 835	penamanda penamanda Pumakos HC Pumakos HC Pumakos HC Pumakos HC Pumakos HC Pumakos HC	20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114	38 4,104 200 100 100 192 192 275 106 300 300 375 149 177 49	9,696 424 211 213 491 491 705 285 420 894 897 379 373	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 14.05.17	1 35 2 1 1 1 2 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 4 5	SAPC KOMA YOGO TANG	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos SAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda	152 0 18,339 919 474 445 685 1,262 465 797 1,341 1,120 477 336 307 893	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284	penamanda penamanda penamanda Pumakos HG	UC 208 20,047 889 444 445 1,016 1,016 646 820 2,311 2,311 1,794 798 748 248 1,114 702	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250	9,696 424 211 213 491 705 285 420 894 894 897 379 373 125 517	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17	1 35 2 1 1 1 2 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 4 5	SAPO KOMA YOGO TANG	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217	penamanda penamanda Pumakos HC	20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260	9,696 424 211 213 491 491 705 285 420 894 897 379 373 125 517 330 187	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17	1 35 2 1 1 1 1 2 1 1 1 1 3 1 1 1 2 1 1 1 1 2 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 4 5	SAPC KOMA YOGO TANG	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda Kembmanda Kembmanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217	penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260	9,696 424 211 213 491 705 285 420 894 897 379 373 125 517 330 187 563	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17	1 35 2 1 1 1 2 1 1 1 1 3 1 1 1 2 1 1 1 2 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 3 4 5	SAPC KOMA YOGG TANG	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda Kembmanda Kembmanda Kembmanda Kembmanda Kembmanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405	penamanda penamanda penamanda Pumakos HG	20,047 889 444 445 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 100 260 199 61	9,696 424 211 213 491 705 285 420 894 877 379 373 125 517 330 187 563 402	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17	1 35 2 1 1 1 1 2 1 1 1 1 3 1 1 1 1 2 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 3 4 5	SAPC KOMA YOGO TANG	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 958	penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61	9,696 424 211 213 491 705 285 420 894 877 379 373 125 517 330 187 563 402 161 500	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17	1 35 2 1 1 1 2 1 1 1 1 3 1 1 1 2 1 1 1 2 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road
3 3 4 5	PIPIT SAPC KOM/ YOGO TANG KIANO PUM/ RAIA	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008 589	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 958 550	penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,016 646 820 2,311 2,311 1,794 798 748 248 1,114 702 4112 988 786 202 782	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69	9,696 424 211 213 491 705 285 420 894 897 379 373 125 517 330 187 563 402 161 500 251	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17	1 35 2 1 1 1 2 1 1 1 3 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road
3 3 4 5 6	SAPC KOM/ YOGO TANG KIANO PUM/ RAIA	District Office Market - Bus Stop RAL ES Pipites Tupaposa SS Sapos AMANDA Komamanda Angimanda OS Yogos SAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda	152 0 18,339 919 474 445 685 685 1,262 797 1,341 1,120 477 336 307 893 400 494 494 1,144 724 420 1,008 589 420	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 958 550 408	penamanda penamanda penamanda penamanda Pumakos HG	UC 208 20,047 889 444 445 1,016 1,016 1,016 646 820 2,311 2,311 1,794 798 748 248 1,114 702 4112 988 786 202 782 297 485	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 199 61 178 69	9,696 424 211 213 491 491 705 285 420 894 894 877 379 373 125 517 330 187 402 161 500 251	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17	1 35 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road
3 3 4 5 6	SAPC KOM/ YOGO TANG KIANO PUM/ RAIA	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 336 307 893 400 494 1,144 724 420 1,008 589 420 722	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 0 835 551 284 1,217 813 405 958 550 408 712	penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109	9,696 424 211 491 705 285 420 894 894 897 379 373 125 517 330 187 563 402 161 500 251 249	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 13.05.17	1 35 2 1 1 1 2 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 3 4 5 6	SAPC KOM/ YOGO TANG KIANO PUM/ RAIA	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda IANDA Alumanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 477 477 494 1,144 724 420 1,008 589 420 722 586	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 550 408 712 489	penamanda penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 250 150 100 260 199 61 178 69 109 150 100	9,696 424 211 213 491 491 705 285 420 894 894 877 379 373 125 517 330 187 402 161 500 251	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17	1 35 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road
3 4 5 6 7	SAPC KOM/ YOGG TANG KIANG PUM/ RAIAG	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 336 307 893 400 494 1,144 724 420 1,008 589 420 722	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 550 408 712 489	penamanda penamanda penamanda penamanda Pumakos HG	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109	9,696 424 211 213 491 491 705 285 420 894 897 373 125 517 330 187 563 402 161 500 251 249 368 274	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 13.05.17	1 35 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
3 3 4 5 6 7	SAPC KOM/ YOGG TANG KIANG PUM/ RAIAG	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos SAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda IANDA Alumanda Sakapmanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008 589 420 722 586 135	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 958 550 408 712 489 223 718	penamanda penamanda penamanda penamanda Pumakos HG	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939	38 4,104 200 100 100 190 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109 150 100 50	9,696 424 211 213 491 705 285 420 894 877 379 125 517 330 187 563 402 161 500 251 249 368 274	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17	1 35 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8	PIPIT SAPC KOM/ YOGG TANG KIANO PUM/ RAIAO ALUM	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda MANDA Alumanda Sakapmanda Sakapmanda Sakapmanda TAMANDA Poketamanda Andinamanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008 589 589 580 586 135 802	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 958 550 408 712 489 223 718	penamanda penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737	38 4,104 200 100 100 190 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109 150 100 50	9,696 424 211 213 491 705 285 420 894 877 379 125 517 330 187 563 402 161 500 251 249 368 274 94	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17	1 35 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8	SAPC KOM/ YOGG TANG KIANG PUM/ RAIAG	District Office Market - Bus Stop RAL ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda MANDA Alumanda Sakapmanda Sakapmanda Sakapmanda TAMANDA Poketamanda Andinamanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008 589 420 722 586 135 802 718	62	penamanda pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737	38 4,104 200 100 100 190 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109 150 100 50 199	9,696 424 211 213 491 705 285 420 894 877 379 373 125 517 330 187 563 402 161 500 251 249 368 274 94 485	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17 14.05.17 14.05.17	1 35 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8	PIPIT SAPC KOM/ YOGG TANG KIANO PUM/ RAIAO ALUM	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos SalMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda MANDA Alumanda Sakapmanda TAMANDA Poketamanda Andinamanda Andinamanda Andinamanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008 589 420 722 586 135 802 718 83 87	62	penamanda pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737 202 592 322	38 4,104 200 100 100 192 275 106 169 300 300 375 149 177 49 250 100 260 199 61 178 69 109 150 100 100 199 150 100 100 199 150 100 100 100 100 100 100 100 100 100	9,696 424 211 213 491 705 285 420 894 897 379 373 125 563 402 161 500 251 249 368 274 94 485 377 108 297	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17 14.05.17 14.05.17	1 35 2 1 1 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8 9	PIPIT SAPC KOM/ YOGG TANG KIANG PUM/ RAIAG ALUM POKE	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda IANDA Alumanda Sakapmanda ETAMANDA Poketamanda Andinamanda Ipali Apwa (Koneyanda)	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008 589 420 722 586 135 802 718 83 564 376	62 0 18,980 858 495 363 813 1,373 647 726 1,359 1,700 686 1,014 0 8355 551 284 1,217 813 405 958 550 408 712 489 223 718 591 127 712 712	penamanda penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737 202 592 322 270	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109 150 100 50 199 150 150 150 150 150 150 150 150 150 150	9,696 424 211 491 705 285 420 894 897 379 373 125 517 330 187 563 402 161 500 251 249 368 274 94 485 377 108	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17 13.05.17	1 35 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8 9	PIPIT SAPC KOM/ YOGG TANG KIANG PUM/ RAIAG ALUM POKE	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda IANDA Alumanda Sakapmanda ETAMANDA Poketamanda Andinamanda Ipali Apwa (Koneyanda) GAPOS	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 336 307 893 400 494 1,144 724 420 1,008 589 420 722 586 135 802 718 83 802 718 83 802 718 83 802 718 83 84 85 86 86 87 87 87 87 87 87 87 87 87 87	62 0 18,980 858 496 363 813 813 1,373 647 726 1,359 1,700 835 551 284 1,217 813 405 958 550 408 712 489 223 718 591 127 712 712 0 1,299	penamanda penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737 202 592 322 270 1,169	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109 150 100 50 199 150 100 50 50 100 50 50 50 50 50 50 50 50 50 50 50 50 5	9,696 424 211 491 705 285 420 894 897 379 373 125 517 330 187 563 402 161 500 251 249 368 274 94 485 377 108	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17 13.05.17 14.05.17 13.05.17	1 35 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8 9	PIPIT SAPC KOM/ YOGG TANG KIANG PUM/ RAIAG ALUM POKE	District Office Market - Bus Stop RAL ES Pipites Trupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Trangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda HANDA Alumanda Sakapmanda TAMANDA Poketamanda Andinamanda Ipali Apwa (Koneyanda) GAPOS Sangurap	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,120 477 477 477 494 1,144 724 420 1,008 490 1,144 724 420 589 420 718 83 802 718 83 802 718 83 802 718 83 84 85 86 86 86 87 87 87 87 87 88 88 88 88 88	62 0 18,980 858 496 363 813 813 1,373 647 726 1,359 1,700 686 686 1,014 0 835 551 284 1,217 813 405 958 550 408 712 712 712 712 0 1,299	penamanda penamanda penamanda penamanda Pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737 202 592 322 270 1,169	38 4,104 200 100 100 192 192 275 106 169 300 300 375 149 250 150 100 260 199 61 178 69 109 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 50 100 50 50 100 50 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 50 50 50 50 50 50 50 50 50 50 50 5	9,696 424 211 213 491 491 705 285 420 894 897 373 125 517 330 187 563 402 161 500 251 249 368 274 94 485 377 1097 158	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17	1 35 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8 9	PIPIT SAPC KOMA YOGO TANG KIANO PUMA RAIAO ALUW POKE IPALI	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda IANDA Alumanda Sakapmanda Sakapmanda IANDA Alumanda Sakapmanda Sakapmanda Andinamanda Andinamanda Ipali Apwa (Koneyanda) GAPOS Sangurap Arumanda	152 0 18,339 919 474 445 685 685 685 1,262 465 797 1,341 1,120 477 893 400 494 1,144 724 420 1,008 589 420 722 586 135 802 718 83 564 1,35 1,3	62 0 18,980 858 495 363 813 813 1,373 647 726 1,359 1,700 686 1,014 0 835 551 284 1,217 813 405 958 408 712 489 223 718 591 127 712 0 1,299 904 395	penamanda pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737 202 592 322 270 1,169 1,037	38 4,104 200 100 100 192 275 106 169 300 300 375 149 250 150 100 260 199 61 178 69 109 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 10	101 9,696 424 211 213 491 705 285 420 894 897 379 373 125 517 330 187 563 402 161 500 251 249 368 274 94 485 377 1087 1588	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17 13.05.17 14.05.17 13.05.17	1 35 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8 9	PIPIT SAPC KOMA YOGO TANG KIANO PUMA RAIAO ALUW POKE IPALI	District Office Market - Bus Stop ES Pipites Tupaposa DS Sapos AMANDA Komamanda Angimanda DS Yogos SAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda ANDA Alumanda Sakapmanda FANDA Alumanda Sakapmanda ANDA Alumanda Sakapmanda ANDA Alumanda Sakapmanda Ipali Apwa (Koneyanda) GAPOS Sangurap Arumanda	152 0 18,339 919 474 445 685 685 1,262 465 797 1,341 1,341 1,120 477 336 307 893 400 494 1,144 724 420 1,008 589 420 722 586 135 802 718 83 564 376 188 1,175 724 451	62	penamanda pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737 202 592 322 270 1,169 1,037 132	38 4,104 200 100 100 100 192 192 275 106 169 300 300 375 149 177 49 250 150 100 260 199 61 178 69 109 150 100 50 199 150 100 50 100 100 100 100 100 100 100	101 9,696 424 211 213 491 705 285 420 894 897 373 125 517 330 187 563 402 161 500 251 249 368 274 94 485 377 108 297 158 139 552 58	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17 13.05.17 14.05.17 15.05.17	1 35 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road
1 2 3 4 5 6 7 8 9	PIPIT SAPC KOMA YOGO TANG KIANO PUMA RAIAO ALUW POKE IPALI	District Office Market - Bus Stop RAL ES Pipites Tupaposa OS Sapos AMANDA Komamanda Angimanda OS Yogos GAIMANDA Tangaimanda Wambus Makukam GAPUMANDA Kiangapumanda Kembmanda AKOS Pumakos Yakatilenk GAM Raiagam Konemanda IANDA Alumanda Sakapmanda Sakapmanda IANDA Alumanda Sakapmanda Sakapmanda Andinamanda Andinamanda Ipali Apwa (Koneyanda) GAPOS Sangurap Arumanda	152 0 18,339 919 474 445 685 685 685 1,262 465 797 1,341 1,120 477 893 400 494 1,144 724 420 1,008 589 420 722 586 135 802 718 83 564 1,35 1,3	62	penamanda pumakos HC	UC 208 20,047 889 444 445 1,016 1,016 1,466 646 820 2,311 2,311 1,794 798 748 248 1,114 702 412 988 786 202 782 297 485 762 579 183 939 737 202 592 322 270 1,169 1,037	38 4,104 200 100 100 192 275 106 169 300 300 375 149 250 150 100 260 199 61 178 69 109 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 50 199 150 100 10	101 9,696 424 211 213 491 705 285 420 894 897 379 373 125 517 330 187 563 402 161 500 251 249 368 274 94 485 377 1087 1588	18.05.17 14.05.17 14.05.17 14.05.17 14.05.17 14.05.17 13.05.17 13.05.17 13.05.17 13.05.17 13.05.17 14.05.17 13.05.17 13.05.17 14.05.17 13.05.17 14.05.17	1 35 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Road Road Road Road Road Road Road Road

LLG	WARD	VILLAGE		Estimated 2017 Population Based On 2014 Census	Health Centre	Population Surveyed		Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Yambitesa	804	718	Topak HC	820	142	377	16.05.17	1	0	0	0		Topak HC Here
14	PITIP.	AIS	1,046	1,050		905	214	454		1	0	0	0		
		Pitipais	1,046	1,050	Topak HC	905	214	454	16.05.17	1	0	0	0		Road/30 Min Trek
15	WANI	IMAS	744	981		644	137	296		1	0	0	0		
		Wanimas	744	981	Topak HC	644	137	296	15.05.17	1	0	0	0		10 min trek
16	LONE	00	2,019	1,526		1,589	344	764		4	0	0	109		
		Londo	391	420	ngemanda	415	100	198	16.05.17	1	0	0	59	KBM	Road
		Aikos	409	378	ngemanda	483	94	228	16.05.17	1	0	0	22	KBM	Road
		Lanemanda	610	327	ngemanda	252	50	120	16.05.17	1	0	0	27	KBM	Road
		Angurumanda	609	401	ngemanda	439	100	218	16.05.17	1	0	0	1	KBM	Road
17	KWIA		1,363	1,328		1,481	356	733		3	0	0	171		
		Usk	614	520	ngemanda	528	124	262	15.05.17	1	0	0	11	KBM	Road
		Kwia	750	807	ngemanda	745	182	375	15.05.17	1	0	0	154	KBM	Road
		Sakalem		NEW	ngemanda	208	50	96	15.05.17	1	0	0	6	KBM	Road / Trek