



National Information and Communications Technology Authority

UNIVERSAL ACCESS & SERVICE (UAS) PROJECT REPORT

2025

Prepared by

UAS BOARD

For

**MINISTER FOR
INFORMATION & COMMUNICATIONS
TECHNOLOGY (ICT)**

HON. TIMOTHY MASIU, MP

CONTENTS

1. EXECUTIVE SUMMARY	1
2. INTRODUCTION.....	3
3. PUBLIC CONSULTATION AND STAKEHOLDER INPUTS.....	3
4. PROJECT IDENTIFICATION FOR 2025.....	4
5. INDICATIVE COST ESTIMATES.....	10
6. RANKING OF UAS PROJECTS.....	11
7. RECOMMENDATIONS	12
8. APPENDICES.....	I

1. EXECUTIVE SUMMARY

This report, prepared by the Universal Access & Service (UAS) Board, in compliance with Section 108 of the National ICT Act 2009, presents the proposed UAS Projects for 2025. The report recommends to the ICT Minister projects that have been identified to address ICT service gaps in underserved areas of Papua New Guinea (PNG), aligning with the UAS Strategic Plan 2023-2027 and national policy goals.

The report incorporates stakeholder feedback and public consultations to identify, rank, and estimate costs for proposed projects. It emphasizes alignment with UAS Fund objectives, financial feasibility, and sustainability to ensure impactful and cost-effective outcomes.

Projects Overview

Project	Description	Impact	Budget	Ranking
Mobile Broadband – Greenfield Lot 1 (Morobe)	Expand 4G/LTE broadband coverage in underserved areas to enhance connectivity and economic growth.	Provide access to over 96,000 people, improving livelihoods and digital inclusion.	K7.6 million	1
Mobile Broadband Greenfield – Lot 2 (West Sepik)			K4 million	
Radio Broadcasting – Lot 1	Extend radio services to underserved communities to disseminate critical information.	Enhance access to social, economic, and educational information for rural populations.	K1.05 million	2
Radio Broadcasting – Lot 2			K1.4 million	
Fixed Broadband – Lot 1	Deploy high-speed internet to key public institutions and offer digital literacy training.	Improve connectivity for schools, health centres, and MSME hubs in rural areas.	K0.9 million	3
Fixed Broadband – Lot 2			K0.9 million	
Fixed Broadband – Lot 3			K0.6 million	
Digital Literacy	Support for training/capacity building activities that increase utilization of ICTs by all citizens, businesses and government/public offices	Increased digital literacy to enable meaningful use of ICT services in target communities	K0.1 million	4
			K16.55 million	

Budget and Implementation

The total budget for these projects is **K16,550,000**, subject to UAS levy collections in 2025. Each project will be implemented through a competitive selection process, ensuring sustainability with one-time subsidies and ongoing operational costs managed by selected operators.

2. INTRODUCTION

2.1 Purpose of the Report

After reviewing a report by NICTA, outlining proposed UAS Projects for the year 2025, the UAS Board has compiled this report putting forth its recommendations for 2025 UAS Projects. In accordance with the National Information and Communications Technology Act 2009 (the Act), the Universal Access and Service (UAS) Board presents this report to the Minister for consideration and to fulfill the responsibilities outlined in Part V of the Act.

As specified in Section 108(2) of the Act, the UAS Board is mandated to create a UAS Project report detailing its recommendations for UAS Projects, including their ranking and the rationale behind such rankings. Furthermore, Section 108(3) requires the UAS Board to submit this UAS Project report, prepared under Subsection (2), to the Minister at least once annually for the Minister's review.

The report incorporates stakeholder submissions, aligns with the UAS Strategic Plan 2023-2027, and considers government policy goals to guide project selection, cost estimation, budgeting, and prioritization. It also reflects industry feedback, particularly from the mobile sector, which dominates the project budget.

The Minister is invited to review the UAS Board's report recommending UAS Projects for 2025. Pursuant to Section 108(5) of the Act, within sixty (60) days of receiving the UAS Project report, the Minister is required to: (a) assess the report, (b) determine which UAS Projects will be implemented within the proposed aggregate budget, and (c) communicate this decision to the UAS Board and NICTA.

2.2 Scope of the Report

The report covers the identification, costing, ranking, and proposed budgeting of UAS Projects, along with the rationale for the prioritization.

3. PUBLIC CONSULTATION AND STAKEHOLDER INPUTS

As part of the public consultation for the 2025 Universal Access and Service (UAS) Projects, NICTA engaged stakeholders—including ICT operators, government agencies, and the public—to align the projects with national ICT policies, particularly the Medium-Term Development Plan IV (MTDP IV). Discussions focused on expanding rural mobile broadband and radio broadcasting services while addressing operational and systemic challenges.

Key stakeholder feedback highlighted issues such as high co-location costs, unreliable power supply, spectrum access barriers, and infrastructure challenges. Recommendations included prioritizing blackspot coverage, exploring innovative rural solutions like satellite backhaul, and adopting technologies like Digital Radio Mondiale (DRM) for enhanced rural broadcasting. In response, NICTA committed to improving co-location guidelines, reviewing procurement processes, and supporting capacity-building initiatives. These insights will shape the design projects going forward to foster inclusivity, sustainability, and alignment with Papua New Guinea's national ICT goals.

4. PROJECT IDENTIFICATION FOR 2025

4.1 Mobile Broadband Greenfield Project

Project Description and Objectives

Mobile broadband is crucial for Papua New Guinea (PNG) to overcome challenges posed by its sparse population and rugged terrain. Mobile solutions, particularly 4G/LTE and advanced wireless systems, are more scalable and flexible compared to fixed broadband, making them ideal for areas where traditional infrastructure is impractical or too expensive.

This project aims to expand mobile broadband services across PNG, prioritizing unserved and underserved regions identified through network coverage analysis. Its primary goals are to provide reliable, high-quality internet access and smart mobile applications to areas hindered by commercial or operational constraints. Supported by the Universal Access and Service (UAS) Fund, the project will finance advanced mobile network infrastructure to close coverage gaps and improve service quality and security, ultimately working toward near-universal mobile broadband coverage.

Key Stakeholders

- Mobile Operators
- Local Communities in Target Areas
- Morobe Provincial Government
- European Union Support to Rural Entrepreneurship, Investment, and Trade (EU STREIT)

Implementation Approach

Procurement Strategy

Licensed mobile operators will bid for 4G service projects in designated areas. Selection will be based on qualifications and either the minimum subsidy requested or the maximum coverage offered for a fixed subsidy. Based on advice from the National Procurement Commission (NPC), alternative procurement methods may be explored, including single-source procurement or expressions of interest in addition to standard public tendering.

Project Requirements

Bidding documents will outline target locations and minimum service standards, including:

- Construction of telecommunications towers.
- Establishment of backhaul and network connectivity.
- Installation or upgrading of base stations.
- Deployment of power infrastructure.
- Provision of broadband mobile services.

Operators will also be required to:

- Ensure minimum customer take-up rates.
- Offer open access and infrastructure sharing within project areas.

Bidding Parameters

Bidders must be licensed mobile network operators with the qualifications, resources, and capabilities to meet the service requirements. Proposals should include detailed deployment plans to achieve minimum coverage. Contracts will be awarded to operators offering either the lowest total subsidy or the broadest coverage within the fixed subsidy.

Project Scope

For 2025, NICTA proposes implementing Mobile Broadband projects in Morobe, and West Sepik Provinces through collaborative partnerships to maximize funding. All sites have been verified by NICTA through network coverage analysis and qualify for UAS subsidy support.

West Sepik Collaboration with EU STREIT Program

- **Scope:** Construction of telecom towers and mobile services rollout.
- **Roles:** EU STREIT identifies project areas; NICTA facilitates procurement.
- **Objectives:** Enhance connectivity to support agriculture and development.
- **Impact:** Farmers gain broadband access to resource centres, improving productivity, market access, and rural livelihoods.
- **Benefits:** Improved communication, training opportunities, and adoption of modern agricultural techniques.

Morobe Provincial Government (MPG) and NICTA Partnership

- **Scope:** Construction of up to 20 telecom towers and mobile services rollout.
- **Roles:** MPG to own and manage passive infrastructure (site acquisition, tower construction, site maintenance); NICTA procures active network components (power and electronics).
- **Objectives:** Extend mobile broadband connectivity to the identified areas in Morobe Province.
- **Benefits:**
 - Shared infrastructure fosters competition among ICT providers.
 - Enhanced accessibility, inclusivity and improved service delivery.

Target Outcomes

The project aims to provide mobile broadband coverage for over 96,000 people, depending on the actual scope and allocation of subsidies.

Indicative Schedule of Key Milestones

Phase	Duration	Start	End
Project Approvals	3 months	December 2024	February 2025
NPC Tender Process	3 months	March 2025	May 2025
Contract Award & Rollout	8 months	June 2025	January 2026
Implementation & M&E	12 months	June 2025	June 2026

4.2 Fixed Broadband Project

Project Description and Objectives

The Fixed Broadband Project aims to deliver high-speed, reliable, and affordable internet access to designated communities and institutions, benefiting public institutions, businesses, and households within the targeted service areas. The initiative focuses on deploying broadband connectivity to key facilities such as schools, health centres, rural agricultural hubs, MSME centres, and airstrips in collaboration with relevant agencies.

To ensure long-term sustainability, the project includes digital skills capacity-building programs tailored to local stakeholders in the project locations. These programs will strengthen the country's telecommunications infrastructure, enhance digital literacy, and empower communities to optimize and manage broadband services effectively.

Key Stakeholders

- Licensed broadband operators.
- Public institutions (schools, health facilities, small business hubs) and rural LLG offices.
- Residents of the targeted communities.
- Local Entrepreneurs and MSME operators;
- International and local aid organizations

The project is built on partnerships with sectoral agencies and institutions, promoting both local and international collaborations to advance meaningful connectivity in Papua New Guinea.

Project Scope

For 2025, NICTA proposes implementing fixed broadband infrastructure in up to eight institutions, focusing on public or privately managed facilities such as schools, health centres, MSME hubs, and rural airstrips. The initiative will deliver community broadband connections and establish public ICT access facilities in these areas.

Support will include one-time capital subsidies provided over a two-year implementation period. Final project sites will be determined through consultations with government agencies, civil society

organizations, and private-sector technology bodies. Additionally, some locations proposed during public consultations in recent years will be incorporated into the 2025 project plan.

Implementation Approach

Procurement Strategy

NICTA will issue a request for bids from licensed operators, outlining project locations, service requirements, and available subsidies. Local SMEs providing internet services are encouraged to participate. Bidders will propose infrastructure, technologies, and network configurations within the allocated budget. Contracts will be awarded to bidders offering the most responsive and cost-effective solutions.

Main Requirements

At a minimum, contractors must:

- Establish broadband access network links to designated communities.
- Provide connections to identified public institutions.
- Set up public broadband access facilities (e.g., community ICT centres or public WiFi).
- Ensure continuous operation of public internet services in project locations.

Bidding Parameters

Bidders must outline the scope, infrastructure, and services to be delivered, adhering to the disclosed subsidy budget. Proposals will be evaluated on their alignment with project goals and their value for the communities served. NICTA and the UAS Board will select bids that provide the greatest impact and value.

Target Outcome

The project aims to improve livelihoods by delivering broadband connectivity and enhancing digital literacy in underserved communities.

Indicative Schedule of Key Milestones

Phase	Duration	Start	End
Project Approvals	3 months	December 2024	February 2025
NICTA Tender Process	2 months	June 2025	July 2025
Contract Award & Rollout	6 months	July 2025	December 2025
Implementation & M&E	12 months	July 2025	July 2026

4.3 Radio Broadcasting

Project Description and Objective

This project aims to expand radio broadcasting services across PNG, addressing gaps and assisting low-income communities underserved by the market. Through the UAS Fund, NICTA will support infrastructure development, focusing on enhancing or installing broadcast antennae on existing or new towers.

In 2025, the project will target selected provinces identified through coverage analysis and recent consultations. NICTA will invite bids from qualified contractors for a single, integrated project to improve broadcasting services in these locations.

Key Stakeholders

- Radio broadcast operators
- General unserved populace of targeted project locations or areas;
- Province and District Administrations

Implementation Approach

Procurement Strategy

NICTA will invite bids from qualified contractors to design, construct, and install the infrastructure and equipment needed to expand broadcast signals in designated areas. In collaboration with broadcasters, NICTA will identify the target locations, while contractors will propose efficient solutions for developing and implementing the required facilities.

Main Requirements

Conduct a survey of existing infrastructure and transmission networks to assess needs. Install broadcast antennae, equipment, and facilities to connect with existing radio networks. Prioritize utilizing available towers and similar structures suitable for supporting broadcast antennae whenever feasible.

Bidding Parameters

Bidders must propose a technical approach and outline requirements for expanding broadcast coverage in the designated areas. NICTA will disclose the available subsidy, and bidders will specify the maximum population coverage achievable within the budget. Projects will be awarded to the qualified bidder offering the broadest coverage cost-effectively.

Indicative Timelines for Key Milestones

Phase	Duration	Start	End
Project Approvals	3 months	December 2024	February 2025
NPC Tender Process	3 months	April 2025	June 2025
Contract Award, Project roll out	6 months	June 2025	November 2025
Project Implementation, M&E	12 months	June 2025	June 2026

4.4 Digital Literacy Projects

Project Description and Objective

Digital Literacy Projects will support training/capacity building activities that increase utilization of ICTs by all citizens, businesses and government/public offices, to achieve a broader contribution of ICTs to social and economic development, consistent with the Government's national development objectives.

These projects are intended to help enhance capacity, understanding, and experience in relation to ICT services and applications, and opportunities that these technologies can present in people's daily lives.

The Digital Literacy Projects will be developed by NICTA in collaboration with public, private, and civil service organizations and will be implemented through partnerships with the ICT industry, education/training service providers, and key government agencies including the Department of ICT (DICT).

Key Stakeholders

- Local digital literacy training providers
- Local/international development partners/agencies
- Broadband services project contractors
- General unserved populace of targeted project locations or areas

Project Scope

For 2025, the projects identified from stakeholder proposals will be supported from the total allocated fund for this project. Digital literacy projects provide capacity building programs for communities within existing UAS projects under the Fixed Broadband Projects.

Specific locations and target beneficiaries of the projects will be determined by NICTA through consultations with the implementing parties.

Implementation Approach

Procurement Strategy

In addition to previously received proposals, NICTA will solicit proposals from various qualified partner organizations, including universities, local governments, small enterprises, social service organizations, training institutes, and community groups. These proposals will be evaluated based on their innovation, cost-effectiveness, and the capacity and resources of the proposing partners. Priority is will be given to proposals that demonstrate the potential to deliver significant benefits to a large number of beneficiaries in the shortest possible time.

Main Requirements

Project partners will be required to design and deliver digital literacy training to enable and encourage uptake of ICT services, particularly in the rural areas.

Indicative Timelines for Key Milestones

Phase	Duration	Start	End
Project Approvals	3 months	December 2024	February 2025
NICTA Tender Process	3 months	Mar 2025	May 2025
Contract Award, Project roll out	6 months	June 2025	November 2025

5. INDICATIVE COST ESTIMATES

To assist the ICT Minister in considering the Projects, and funding needs, the UAS Board provides below an indicative 2025 budget and target outcomes. The project implementation is subject to the availability of funding primarily through UAS Levies for 2025.

To ensure efficient project procurement in compliance with the National Procurement Act 2018, each project has been carefully scoped with appropriate budget allocations. Smaller projects with budgets below the K1 million threshold will be procured directly by NICTA. Meanwhile, Mobile Broadband projects with proposed budgets exceeding K1 million but under K10 million will be procured through the National Procurement Commission (NPC).

Project	Budget	Details
Mobile Broadband Greenfield – Lot 1 (Morobe)	K7.6 million	• K400,000 per site • Up to 19 sites
Mobile Broadband Greenfield – Lot 2 (West Sepik)	K4 million	• K800,000 per site • Up to 5 sites
Radio Broadcasting – Lot 1	K1.05 million (K350,000 per site)	• K350,000 per site • Up to 3 sites

Radio Broadcasting – Lot 2	K1.4 million	• K350,000 per site • Up to 4 sites
Fixed Broadband – Lot 1	K0.9 million	• K300,000 per site • 3 sites
Fixed Broadband – Lot 2	K0.9 million	• K300,000 per site • 3 sites
Fixed Broadband – Lot 3	K0.6 million	• K300,000 per site • 2 sites
Digital Literacy Project	K0.1 million	

Aggregate Budget

The total estimated budget for all UAS Projects is PGK **16,550,000.00**

6. RANKING OF UAS PROJECTS

The prioritization of UAS Projects is based on the criteria outlined in Section 108(4) of the National ICT Act 2009.

6.1 Ranking Table

Rank	Project Name
1	Mobile Broadband
2	Radio Broadcasting
3	Fixed Broadband
4	Digital Literacy

6.2 Rationale for Ranking

The prioritization process and decisions for the identified project is based the provisions of Section 108(1)(e) of the Act. The assessment of projects to establish the ranking for projects are premised around satisfaction of requirements including:

- Alignment with Universal Access and Service Fund objectives.
- Net benefits to Papua New Guinea.
- Feasibility and sustainability assessments.

Detailed ranking descriptions are provided in Appendix A to this Report.

7. RECOMMENDATIONS

7.1 Proposed UAS Projects for 2025

Project	Ranking	Budget
Mobile Broadband Greenfield (Lots 1 and 2)	1	K11,600,000
Radio Broadcasting Project (Lots 1 and 2)	2	K2,450,000
Fixed Broadband Project (Lots 1, 2 and 3)	3	K2,400,000
Meaningful Connectivity	4	K100,000
Total		K16,550,000

7.2 Proposed Budget

A budget of **K16,550,000.00** is proposed to implement the UAS Projects for 2025. Whilst the UAS levy is the most immediately available means to finance the implementation of the projects, there will be ongoing consideration and effort by NICTA to utilize other sources of funding as provided for in the Act including PNG Government Capital (PIP) Budget and donor funding.

7.3 Implementation Strategy

The implementation of the 2025 UAS Project will be aligned with the imposition of the 2025 UAS Levy. Implementation timelines for each project will be carefully detailed to ensure effective delivery and in compliance with all applicable procurement requirements, including the requirements of the National Procurement Act 2018.

7.4 Additional Considerations

The ICT Minister will note that NICTA will continue implementing past approved projects in parallel with any implementation activities for the 2025 UAS Projects once approved. The implementation of UAS Projects for 2025 is subject to timely collection of 2025 UAS levies which remain the primary source of funding.

8. APPENDICES

Appendix A: Project Ranking pursuant to Section 108(1)(e)

Appendix B: Mobile Broadband Project sites

Appendix C: Project Cost Estimates

Appendix A: Project Ranking based on Section 108(1)(e)

Mobile Broadband - Ranked #1

Criteria	Assessment
(a) whether the proposed UAS Project would promote the objectives of the Universal Access and Service Fund	This Project meets the UAS Fund objective set out in Section 90(1) of the Act. It directly relates to the improvement of ICT services within PNG, and to rural communities in particular.
(b) the net benefits of the UAS Project to Papua New Guinea, taking into account any costs and detriments to any person	There are clear net benefits to the communities in the locations in which mobile broadband service will be provided through the provision of services that will underpin economic development and greater social cohesion.
(c) whether the UAS Project is sustainable with a one-time capital subsidy	In each of the chosen locations the Project will be sustainable with a one-time capital subsidy and continued operation of the services and related costs will be provided by the successful bidder.
(d) whether the UAS Project would not otherwise occur but for a subsidy payment under this Part	This Project, in the locations identified, would not otherwise occur except for the subsidy provided from the UAS Fund.
(e) the likely efficiency and effectiveness of the proposed UAS Project and whether it is financially and technically feasible	The Project will be undertaken efficiently and effectively, and this will be guaranteed through an arms-length public tender process. The project is financially and technically feasible as shown by similar projects in other locations and by the business programs of PNG licensed mobile operators.
(f) any other information the UAS Board considers relevant	Other relevant information contained in this report and in the associated analysis of existing mobile broadband network coverage and service.
(g) (shall ensure that) any UAS Project does not include services under a mandatory coverage obligation	The Project does not include services subject to a mandatory coverage obligation.
(h) (shall ensure that) any UAS Project is not otherwise provided by a pre-existing UAS Project	The Project and its constituent elements are not covered by a pre-existing UAS Project.

Radio Broadcasting - Ranked #2

Criteria	Assessment
(a) whether the proposed UAS Project would promote the objectives of the Universal Access and Service Fund	This Project meets the UAS Fund objective set out in Section 90(1) of the Act. It directly relates to the improvement of ICT services within PNG, and will encourage greater ICT usage and therefore encourage further investment in ICT infrastructure. Improved broadcasting service coverage is critical to informing economic and social transactions.
(b) the net benefits of the UAS Project to Papua New Guinea, taking into account any costs and detriments to any person	Improved information distribution through increased broadcasting service coverage will provide net social and economic benefits through a better-informed community in the areas the Project covers.
(c) whether the UAS Project is sustainable with a one-time capital subsidy	Yes, there will be a one-time contribution from the UAS Fund and the specific proposals that are accepted for funding will be selected on the basis that they will be commercially or otherwise sustainable after that contribution.
(d) whether the UAS Project would not otherwise occur but for a subsidy payment under this Part	Proposals accepted for funding under this Project will be selected on the basis that they would not be progressed but for the subsidy.
(e) the likely efficiency and effectiveness of the proposed UAS Project and whether it is financially and technically feasible	The Project will be undertaken efficiently and effectively, and this will be guaranteed through an arms-length public tender process. Financial and technical feasibility will have to be proven by the proponents of proposals that are accepted for a subsidy.
(f) any other information the UAS Board considers relevant	Other relevant information is contained in this report.
(g) (shall ensure that) any UAS Project does not include services under a mandatory coverage obligation	The Project does not include services subject to a mandatory coverage obligation.
(h) (shall ensure that) any UAS Project is not otherwise provided by a pre-existing UAS Project	The Project and its constituent elements are not covered by a pre-existing UAS Project.

Fixed Broadband – Ranked #3

Criteria	Assessment
(a) whether the proposed UAS Project would promote the objectives of the Universal Access and Service Fund	This Project meets the UAS Fund objective set out in Section 90(1) of the Act. It directly relates to the improvement of ICT services within PNG, and will be implemented to prioritise potential broadband users in rural communities without other access to these services.
(b) the net benefits of the UAS Project to Papua New Guinea, taking into account any costs and detriments to any person	There are clear net benefits resulting from the provision of services in this Project. They will underpin economic development and greater social cohesion. In particular, the community broadband networks from the Project will provide very important local economic infrastructure supporting online transactions that enable the economic reach of the communities served to be extended.
(c) whether the UAS Project is sustainable with a one-time capital subsidy	In each of the chosen locations the Project will be sustainable with a one-time capital subsidy and continued operation of the services and related costs will be provided by the successful bidder.
(d) whether the UAS Project would not otherwise occur but for a subsidy payment under this Part	This Project, in the locations identified, would not otherwise occur except for the subsidy provided from the UAS Fund.
(e) the likely efficiency and effectiveness of the proposed UAS Project and whether it is financially and technically feasible	The Project will be undertaken efficiently and effectively, and this will be guaranteed through an arms-length public tender process. The project is financially and technically feasible as shown by similar projects in other locations and by the business programs of PNG licensed mobile operators.
(f) any other information the UAS Board considers relevant	Other relevant information is contained in this report.
(g) (shall ensure that) any UAS Project does not include services under a mandatory coverage obligation	The Project does not include services subject to a mandatory coverage obligation.
(h) (shall ensure that) any UAS Project is not otherwise provided by a pre-existing UAS Project	The Project and its constituent elements are not covered by a pre-existing UAS Project.

Appendix B: Mobile Broadband Site List

No.	Project Site	Current Population Coverage	Target Population	Ward	LLG	District	Province	Latitude	Longitude
1	Sumumini	0	2,245	Sumumini	Bewani/Wutung Onei Rural	Vanimo-Green River	West Sepik	-3.0927	141.3791
2	Yiklau	0	1,777	Yiklau	East Wapei Rural	Aitape-Lumi	West Sepik	-3.67287	141.9698
3	Hiyewini	0	3,261	Hiyewini	Kapao Rural	Menyamya	Morobe	-7.44122	146.4373
4	Langimar	0	5,089	Langimar	Kapao Rural	Menyamya	Morobe	-7.23109	146.2207
5	Popoe	0	3,049	Popoe	Morobe Rural	Huon	Morobe	-7.97961	147.6232
6	Wuwu	0	3,073	Wuwu	Morobe Rural	Huon	Morobe	-7.96029	147.7192
7	Kemen	0	7,645	Kemen	Nabak Rural	Nawae	Morobe	-6.4501	146.9211
8	Poiyu	0	7,048	Poiyu	Nanima Kariba	Menyamya	Morobe	-7.39567	146.1692
9	Shonhau	1269	4,210	Shonhau	Nanima Kariba	Menyamya	Morobe	-7.42757	146.0986
10	Betianap	0	7,527	Betianap	Oksapmin Rural	Telefomin	West Sepik	-5.21493	142.1759
11	Antir	0	1,558	Antir	Onga/Waffa Rural	Markham	Morobe	-6.47022	146.202
12	Kusing	0	3,613	Kusing	Onga/Waffa Rural	Markham	Morobe	-6.6318	-146.168
13	Tapakainantu	0	2,749	Tapakainantu	Onga/Waffa Rural	Markham	Morobe	-6.75718	146.1957
14	Binare	0	2,897	Binare	Palmai Rural	Nuku	West Sepik	-3.56443	142.4332
15	Sumambum	0	3,562	Sumambum	Palmai Rural	Nuku	West Sepik	-3.45253	142.5237
16	Bobodum	0	2,142	Bobodum	Salamaua Rural	Huon	Morobe	-7.07562	146.844
17	Laugui	0	4,070	Laugui	Salamaua Rural	Huon	Morobe	-7.05829	147.0473
18	Gitukia	0	3,108	Gitukia	Sialum Rural	Tewae-Siassi	Morobe	-6.09015	147.4966
19	Kasangare	0	4,822	Kasangare	Waria Rural	Wau-Waria	Morobe	-7.76587	146.875
20	Nanaya	0	2,715	Nanaya	Wasu Rural	Tewae-Siassi	Morobe	-5.9037	146.8569
21	Sio 1	0	4,740	Sio 1	Wasu Rural	Tewae-Siassi	Morobe	-5.93093	147.3226
22	Andarora	0	6,072	Andarora	Watut Rural	Bulolo	Morobe	-7.22247	146.4932
23	Kembaka	0	5,022	Kembaka	Wau Rural	Wau-Waria	Morobe	-7.66277	146.8505
24	Mangac	0	4,292	Mangac	Yabim Mape Rural	Finschafen	Morobe	-6.57894	147.6221
		1,269	96,286						

Appendix C: Project Cost Estimates

Mobile Projects

No.	Project Site	Ward	LLG	District	Province	Proposed Subsidy	Procurement Lot
1	Sumumini	Sumumini	Bewani/Wutung Onei Rural	Vanimo-Green River	West Sepik	K800,000.00	2
2	Yiklau	Yiklau	East Wapei Rural	Aitape-Lumi	West Sepik	K800,000.00	2
3	Hiyewini	Hiyewini	Kapao Rural	Menyamya	Morobe	K400,000.00	1
4	Langimar	Langimar	Kapao Rural	Menyamya	Morobe	K400,000.00	1
5	Popoe	Popoe	Morobe Rural	Huon	Morobe	K400,000.00	1
6	Wuwu	Wuwu	Morobe Rural	Huon	Morobe	K400,000.00	1
7	Kemen	Kemen	Nabak Rural	Nawae	Morobe	K400,000.00	1
8	Poiyu	Poiyu	Nanima Kariba	Menyamya	Morobe	K400,000.00	1
9	Shonhau	Shonhau	Nanima Kariba	Menyamya	Morobe	K400,000.00	1
10	Betianap	Betianap	Oksapmin Rural	Telefomin	West Sepik	K800,000.00	2
11	Antir	Antir	Onga/Waffa Rural	Markham	Morobe	K400,000.00	1
12	Kusing	Kusing	Onga/Waffa Rural	Markham	Morobe	K400,000.00	1
13	Tapakainantu	Tapakainantu	Onga/Waffa Rural	Markham	Morobe	K400,000.00	1
14	Binare	Binare	Palmai Rural	Nuku	West Sepik	K800,000.00	2
15	Sumambum	Sumambum	Palmai Rural	Nuku	West Sepik	K800,000.00	2
16	Bobodum	Bobodum	Salamaua Rural	Huon	Morobe	K400,000.00	1
17	Laugui	Laugui	Salamaua Rural	Huon	Morobe	K400,000.00	1
18	Gitukia	Gitukia	Sialum Rural	Tewae-Siassi	Morobe	K400,000.00	1
19	Kasangare	Kasangare	Waria Rural	Wau-Waria	Morobe	K400,000.00	1
20	Nanaya	Nanaya	Wasu Rural	Tewae-Siassi	Morobe	K400,000.00	1
21	Sio 1	Sio 1	Wasu Rural	Tewae-Siassi	Morobe	K400,000.00	1
22	Andarora	Andarora	Watut Rural	Bulolo	Morobe	K400,000.00	1
23	Kembaka	Kembaka	Wau Rural	Wau-Waria	Morobe	K400,000.00	1
24	Mangac	Mangac	Yabim Mape Rural	Finschafen	Morobe	K400,000.00	1
						K11,600,000.00	

Fixed Broadband

No.	Project site	Institution type	Establish broadband connection (equipment, logistics, etc)		Bandwidth cost - 24 months		Off-grid power supply for broadband connection		System admin user devices		End user devices		Total Proposed Budget	Procurement Lot
			Cost	45,000	Cost	2,500	Cost	60,000	Cost	5,000	Cost	5,000		
			Quantity	1	Quantity	24	Quantity	1	Quantity	1	Quantity	20		
1	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	1
2	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	1
3	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	1
4	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	2
5	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	2
6	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	2
7	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	3
8	TBC	TBC	1	K45,000	1	K60,000	1	K90,000	1	K5,000	1	K100,000	K300,000	3
				K360,000		K480,000		K720,000		K 40,000		K800,000	K2,400,000	

Radio Broadcasting Project

No	Proposed Site	Province	Region	Procurement Lot	Budget
1	Abau	Central	Southern	1	K350,000.00
2	Bogia	Madang	Momase	1	K350,000.00
3	Ialibu-Pangia	Southern Highlands	Highlands	3	K350,000.00
4	Maprik	East Sepik	Momase	2	K350,000.00
5	Telefomin	West Sepik	Momase	2	K350,000.00
6	- Tari	Hela	Highlands	3	K350,000.00
7	Kiunga	Western	Southern	2	K350,000.00
					K2,450,000.00