



NATIONAL INFORMATION & COMMUNICATIONS  
TECHNOLOGY AUTHORITY

Universal Access and Service Projects for 2020

Date of Submission: **May 2019**

Project Proposal Form – FORM 002

(All project proposals submitted MUST follow this format and sequence. Projects proposals which do not follow this format and sequence may not be considered. All questions must be answered)

**Applicant Information**

<b>Name</b>	MR.JUKI WALDI		
<b>Organization</b>	HIGHCOMS ENGINEERING LIMITED	<b>Type of Organization:</b>	
		<input type="checkbox"/> Community/Village/Education Institution <input type="checkbox"/> Government <input checked="" type="checkbox"/> Private <input type="checkbox"/> NGO <input type="checkbox"/> Other	
<b>Position</b>	MANAGER		
<b>Mailing Address</b>	P.O.BOX 648,MT.HAGEN.WHP		
<b>Telephone</b>	5220042	<b>Fax</b>	NIL
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**Project Information**

<b>Project Title</b>	<b>SUPPLY &amp; INSTALLATION OF A COMPUTER WITH BROADBAND CONNECTION AT BUKAPENA HEALTH CENTRE</b>
<b>Project Location:</b>	<b>BUKAPENA HEALTH CENTRE</b>
<b>Province</b>	WESTERN HIGHLANDS PROVINCE
<b>District</b>	MUL BAIYER
<b>LLG</b>	MUL LLG
<b>Ward</b>	NINGA,MELI & KUMDI TRIBES

### Project summary

While we are now in the computer age, a larger fraction of our population do not possess the necessary knowledge and skills to use the ITC services that are available to gain maximum benefit. This problem can be reduced by training and giving people the opportunity to use the services. People will remain IT illiterate they are denied this chance.

The provision of ITC services for health workers at Bukapena Health Centre will enable them to access information on different types of health issues, treatment options (new & improved) available drugs, medical research papers, etc. In PNG there may be new health issues appearing due to lifestyle and climate changes which can be attached with the right knowledge and that can be available on the internet. Secondly Medical staff from rural establishments within the province like their public servants counterparts would in most cases vacate place of work to attend to administration matters. This is lost work time and a financial loss to the state. With this network all administrative queries can be handled from work stations.

The ITC setup for this health facility will have two standalone computers with broadband service for all facility staff to use. Additional equipment will be a network printer for all to print documents. All equipment will be provided with backup power (UPSs) to allow users to save work during power outages. Access to prohibited sites will be achieved by installing a PC with Firewall before connecting to the desktop computer.

The WHPHA has an organizational ITC network plan in place but did not implement it due to insufficient funds. The plan was to connect all outstations to the main HUB located at the Mt. Hagen General Hospital. The Authority is pleased to see NICTA involvement to help fulfill its plans and are committing counterpart funding of 20% of the total project costs.

The WHPHA has IT personals to maintain this project and will sustain it through its annual operations costs.

Install Digicel PNG Limited broadband access equipment to receive this service..

Project Cost	Requested Amount	Own funding
K25,026.10	K20,020.88	K5,005.22

### Duration of the Project

From August 2019 To August 2019

It is anticipated, this project will take at least four weeks to complete from equipment order to installation, testing and commissioning.

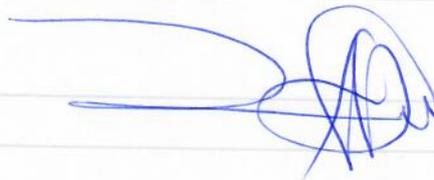
### Contact Point Information (If contact point is different from the applicant, please fill in as follows)

<b>Name</b>	MR.DAVID VORST		
<b>Organization</b>	WESTERN HIGHLANDS PROVINCIAL HEALTH AUTHORITY		
<b>Address</b>	P.O.BOX 36,MT.HAGEN.WHP		
<b>Position</b>	CHIEF EXECUTIVE OFFICER		
<b>Telephone</b>	5421166	<b>Fax</b>	5421445/5422127
<b>Email</b>	david.vosrt@whhs.gov.pg		

Date

27 May 2019

Signature



## Project Details

Please describe outline of the pilot project	
Objectives	Provide one computer with Broadband service for Bukapena Health Centre.
Purpose of Project	Offer health workers from Bukapena Health Centre. The opportunity to use ITC services to improve performance and communicate with headquarter staff regarding patient care, medical supply orders and administrative functions.
Outline of pilot project	<p>We propose to setup two standalone desktop computers with broadband connection. Additional items will be a network printer/copier/scanner for printing and photocopying work and scanner for scanning and emailing documents.</p> <p>Accessing prohibited sites will not be allowed on this setup. We will install PCs with Firewall to achieve that.</p> <p>This setup will then be configured to be part of the Western Highlands Provincial Health Authority network</p> <p>The entire network equipment will be supported with floor mount backup power (UPS) during power outages. This will allow users to save their last work.</p> <p>All thin clients will have access to broadband service for medical staff to research new and better knowledge on patient care, obtain further expert assistance from the Mt.Hagen referral hospital on patient care, ordering medical supply and administration functions.</p> <p>The ongoing operational costs including broadband service fees will be included in WHPHA recurrent budget. Maintenance of the setup will be the responsibility of the WHPHA IT personals.</p> <p>The ISP for this area will be Digicel PNG has it provides a better broadband coverage there</p>
Appropriateness of the Project	We are in the computer age. Computers are used just about everywhere and every day. While a lot of countries around the globe have leaped forward in making those services available and enabling all citizen to use them fully to their advantage, this trend is lacking in PNG. One reason is the lack of knowledge on how to use it and the opportunity to use it. This project will provide the chance for health workers to improve their performance and patient care. It will also create an opportunity for computer illiterates to learn to use computers and the broadband service.
Number of Persons benefiting from the project	<p>Bukapena Health Centre serves patients from the Nenga, Meli and Kumdi tribes. It is operated by 7 staff. It handles approximately 40 patients daily.</p> <p>This project if implemented will benefit the 12,000 plus people of above tribes and 7 staff of the clinic</p>
Project Benefits	The benefit of having this project is improved health services and patient care for the 12,000 plus people of above tribes.
Partner organizations/institutions (if any)	The Western Highlands Provincial Health Authority manages all health facilities within the Western highlands Province. The office of the CEO WHPHA has made a commitment of 20% of the total costing to support this project. Please find attached the letter (attachment "A") confirming their commitment to work in partnership to successfully implement this project in the form of counterpart funding.
Milestone(significant phases of the project)	This will be a very small installation. Basically it will consist of two stages. First is the order of all equipment and materials followed by installation, testing and commissioning. It will last approximately four weeks. It will be completed with a basic computers skills training for users. The training will be conducted by the WHPHA through its internal training programs.

Annex 1

<p>Expected output</p>	<p>This project will produce computer literate 7 medical staff of the hospital with new and increased knowledge of ITC services. This knowledge will be transformed to improved patient care and staff performance. Staff will research information on patient care , reading medical research in latest discoveries which should also increase their knowledge of the medical field. Patient care will be improved from ensuring (ordering) medical supplies and have them readily available on site. It will also and communication with Mt.Hagen hospital regarding referral patients and patients needing. Regularly staff leave job site and go to Mt.Hagen headquarters to attend to administration matters. These queries can be handled form their work station after the operation of this project, meaning more time for patient care.</p> <p>All the above will contribute to the better and improved patient care. In the end it's the 12,000 people of the above tribes plus the 7 staff members to benefit from this project.</p>																										
<p>Project Risks</p>	<p>What are the risks to the Project? How will they be overcome or managed? (See management table)</p> <table border="1" data-bbox="371 689 1508 1630"> <thead> <tr> <th data-bbox="371 689 539 925">Risk -List all possible risks you can think of</th> <th data-bbox="547 689 707 925">Consequence 4 – Extreme 3 – High 2 – Medium 1 -Low</th> <th data-bbox="715 689 850 925">Probability 4 – Almost certain 3 – Likely 2 – Positive 1 - Unlikely</th> <th data-bbox="858 689 1508 925">Risk Management/Mitigation plan</th> </tr> </thead> <tbody> <tr> <td data-bbox="371 936 539 1059">Accessing prohibited web sites</td> <td data-bbox="547 936 707 1059">1</td> <td data-bbox="715 936 850 1059">1</td> <td data-bbox="858 936 1508 1059">Access of prohibited sites will be denied through installation of a mini PC with the appropriate firewall software. This will be done to also ensure usage of data is minimized to business only.</td> </tr> <tr> <td data-bbox="371 1070 539 1216">Land not secured</td> <td data-bbox="547 1070 707 1216">1</td> <td data-bbox="715 1070 850 1216">1</td> <td data-bbox="858 1070 1508 1216">Land is secured as it is an established health facility and it does not have any outstanding land issues. However if issues does arise the hospital committee will deal with it through its community representatives from the local community, villages and council wards (tribes).</td> </tr> <tr> <td data-bbox="371 1227 539 1373">Security</td> <td data-bbox="547 1227 707 1373">1</td> <td data-bbox="715 1227 850 1373">1</td> <td data-bbox="858 1227 1508 1373">This is an established facility and has been operating since the 2005. Security has never been an issue. There is a fulltime security officer for the property however if such issues does arise the community will address it.</td> </tr> <tr> <td data-bbox="371 1384 539 1507">Project Equipment Personalized</td> <td data-bbox="547 1384 707 1507">1</td> <td data-bbox="715 1384 850 1507">1</td> <td data-bbox="858 1384 1508 1507">The equipment supplied will be registered assets of the Western Highlands provincial Health, as such this problem will be eliminated.</td> </tr> <tr> <td data-bbox="371 1518 539 1630">Maintenance &amp; recurrent costs</td> <td data-bbox="547 1518 707 1630">1</td> <td data-bbox="715 1518 850 1630">1</td> <td data-bbox="858 1518 1508 1630">Running costs for this installation will come from the WHPHA operational budget</td> </tr> </tbody> </table>			Risk -List all possible risks you can think of	Consequence 4 – Extreme 3 – High 2 – Medium 1 -Low	Probability 4 – Almost certain 3 – Likely 2 – Positive 1 - Unlikely	Risk Management/Mitigation plan	Accessing prohibited web sites	1	1	Access of prohibited sites will be denied through installation of a mini PC with the appropriate firewall software. This will be done to also ensure usage of data is minimized to business only.	Land not secured	1	1	Land is secured as it is an established health facility and it does not have any outstanding land issues. However if issues does arise the hospital committee will deal with it through its community representatives from the local community, villages and council wards (tribes).	Security	1	1	This is an established facility and has been operating since the 2005. Security has never been an issue. There is a fulltime security officer for the property however if such issues does arise the community will address it.	Project Equipment Personalized	1	1	The equipment supplied will be registered assets of the Western Highlands provincial Health, as such this problem will be eliminated.	Maintenance & recurrent costs	1	1	Running costs for this installation will come from the WHPHA operational budget
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<p>Reporting Procedure</p>	<p>The WHPHA through its Information Systems Manager, Dr. David Johnson will oversee the implementation of this project. Dr. Johnson will report to NICTA project manager issuing weekly progress reports. The contractor is also expected to issue biweekly project progress reports to Dr. Johnson.</p>																										

Annex 1

Linkage to existing Government development policies	Internet usage by the population is growing but at a low pace. The reason being most are computer illiterate and not having the opportunity to use them. The project will address these problems through training users (health workers). This will further help increase staff knowledge on their job thus increasing productivity and improve the welling being and health of the people of above tribes.
Financial Support	The Western Highlands Provincial Health Authority (WHPHA) will support this project by counterpart funding 20% of the total establishment cost. Please refer to attachment "A", pledging it's support for this project.
Sustainability of Project	Annual running costs for this facility will be for service fees, purchase of consumable, power bills, broadband service, etc. The WHPHA to fund these costs from its recurrent operational budget.

The intended project implementation period is four weeks. This time is considered sufficient while accommodating any unforeseen circumstances likely to cause delays.

Weeks # 1 - 3

- (a) Place orders for all hardware (computer, server, cables, etc)
- (b) Place order for Digicel Broadband connection
- (c) Pre installation site visit
- (d) WHPHA to conduct in house IT skills training for staff @ Mt.Hagen hospital

Weeks # 4

- (a) Install Digicel Broadband access equipment
- (b) Installation of network equipment, test and commission

**BUKEPENA HEALTH CENTRE ICT SETUP COST**

<b>DESCRIPTION</b>	<b>UNIT COST</b>	<b>QTY</b>	<b>TOTAL COSTS</b>
850VA UPS,Eaton floor mount	K 360.00	2	K 720.00
Lenova M720-17,8GB RAM,1TB HD,windows 10P64,DVDRW	K 5,567.00	3	K 16,701.00
45cm HP screen, c/w mouse + pad,key board	K 710.00	3	K 2,130.00
HP LJ Pro MFP Printer/copier/fax/scanner,Colour	K 1,850.00	1	K 1,850.00
Telikom Wimax Broadband connection	K 770.00	1	K 770.00
Labour -installation	K 1,300.00	1	K 1,300.00
Total			K 22,751.00
10% GST			2,275.10
<b>TOTAL AMOUNT PAYABLE - BUKEPENA HEALTH CENTRE</b>			<b>25,026.10</b>

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## Chief Information Officer

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### NICTA FUNDED UAS PROJECT 2020

This letter is to advise that the WHPHA supports the **ICT SERVICE CONNECTION FOR RURAL HEALTH FACILITIES WITHIN the WESTERN HIGHLANDS PROVINCIAL HEALTH AUTHORITY** project as put forward by Highcoms Engineering Limited.

As background the WHPHA is deploying a Province wide Health Information System (ePMRMS) across the province and throughout the Highlands Region. We have made substantial investments in a Data Centre and ICT Infrastructure over the past 5 years and have fully deployed ePMRMS at Mount Hagen Hospital.

We recently installed a 4.5m C-BAND Satellite Dish as the Hub of this network and will be connecting up our three District Hospitals over the next 12 months. We are pleased to support this project as it will allow us to integrate our Community Health Posts of which there are around 33 detailed in the proposal.

The WHPHA will continue to invest in this project and proportionately fund any successful proposal.

*Dr David Johnson*  
*Chief Information Officer*

7/6/2019.